# Pioneer sound.vision.soul

# Service Manual



ORDER NO. ARP3402

**PLASMA DISPLAY** 

# PDP-507CMX PDP-50MXE20 PDP-50MXE20-S

## THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-507CMX	KUC	AC 120 V	
PDP-50MXE20	LDFK5	AC 100 V to 240 V	
PDP-50MXE20-S	LDF5	AC 100 V to 240 V	
PDP-50MXE20	TYVXK5	AC 100 V to 240 V	



For details, refer to "Important Check Points for good servicing".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2006

# 1. NOTES ON SERVICE VISIT

#### 1.1 SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual doit-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

#### WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

#### NOTICE

(FOR CANADIAN MODEL ONLY)

■ Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

#### REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

#### SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistorcapacitor, etc.
- When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
  - 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
  - 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and servicetechnician.

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully.

  Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

\_

PDP-507CMX

#### **Leakage Current Cold Check**

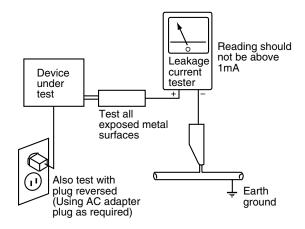
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of  $4M\Omega$ . The below  $4M\Omega$  resistor value indicate an abnormality which require corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

#### **Leakage Current Hot Check**

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 1mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

#### PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  $\triangle$  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

#### LITHIUM BATTERY NOTICE

#### CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

When replacing the lithium batteries, follow the note below. Dispose of the used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire

The battery used in this device may present a fire or chemical hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace only with the same Part Number. Use of another battery may present a risk of fire or explosion.

Note: The lithium battery installation position is shown in the exploded views.

3

D

Ε

#### ■Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. Power Cord
- 2. AC Inlet
- 3. Power Switch (S1)
  - 4. Fuse (In the POWER SUPPLY Unit)
  - 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
  - 6. Other primary side of the POWER SUPPLY Unit

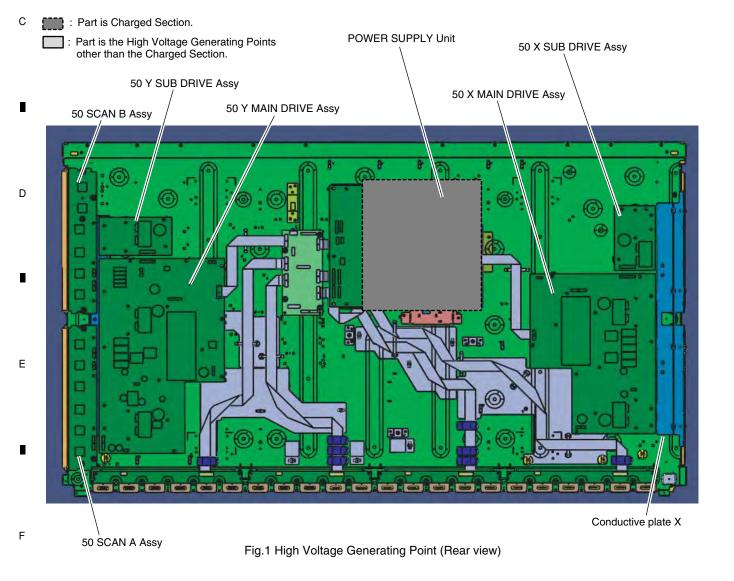
#### **■** High Voltage Generating Point

The places where voltage is 100 V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

The VSUS voltage remains for several minutes after the power to the unit is turned off. These places must not be touched until about 10 minutes after the power is turned off, or it is confirmed with a tester that there is no residual VSUS voltage.

If the procedures described in "10.2 POWER ON/OFF FUNC-TION FOR THE LARGE-SIGNAL SYSTEM" are performed before the power is turned off, the voltage will be discharged in about 30 seconds.

POWER SUPPLY UNIT	(205 V)
50 X MAIN DRIVE Assy	(-180 V to 205 V)
50 X SUB DRIVE Assy	(-180 V to 205 V)
50 Y MAIN DRIVE Assy	(500 V)
50 Y SUB DRIVE Assy	(350 V)
50 SCAN A Assy	(500 V)
50 SCAN B Assy	(500 V)



Please be sure to confirm and follow these procedures.

5

#### Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

#### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

#### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

#### 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

#### 5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

8

5

В

C

D

Ε

F

PDP-507CMX 7

5

ь

# 1.2 JIGS LIST



# ■ Cleaning

Name	Part No.	Remarks
Cleaning liquid	GEM1004	Used to fan cleaning.
Cleaning paper	GED-008	Refer to "2.4 CHASSIS SECTION (1/2) and "2.7 MULTI BASE SECTION".

# **B** CONTENTS

	1. NOTES ON SERVICE VISIT	2
	1.1 SAFETY INFORMATION	2
	1.2 JIGS LIST	6
	2. EXPLODED VIEWS AND PARTS LIST	8
	2.1 PACKING SECTION	
	2.2 REAR SECTION	10
	2.3 FRONT SECTION	12
	2.4 CHASSIS SECTION (1/2)	14
	2.5 CHASSIS SECTION (2/2)	
	2.6 PANEL CHASSIS SECTION	
	2.7 MULTI BASE SECTION	
С	2.8 PDP SERVICE ASSY 507 (AWU1233)	
	3. PCB PARTS LIST	
	4. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM	
	4.1 OVERALL CONNECTION DIAGRAM (1/2)	
	4.2 OVERALL CONNECTION DIAGRAM (2/2)	
_	4.3 OVERALL BLOCK DIAGRAM (1/2)	
	4.4 OVERALL BLOCK DIAGRAM (2/2)	
	4.5 MAIN ASSY	
	4.6 DD and LVDS ASSYS	
	4.7 50 DIGITAL ASSY	
	4.8 COMMSLOT ASSY	
D	4.9 KEY, LED2, SENB, SENC and SEND ASSYS	
ט	4.10 AUDIO and COMMSLOT IF ASSYS	
	4.11 50 ADDRESS S and L ASSYS	
	4.12 50 SCAN A and B ASSYS	
	4.13 50 X MAIN DRIVE and 50 X SUB DRIVE ASSYS	
	4.14 50 Y MAIN DRIVE and 50 Y SUB DRIVE ASSYS	
	4.15 POWER SUPPLY UNIT	
	4.16 POWER BLOCK DIAGRAM	
	4.17 CONNECTOR PIN DESCRIPTION	64
	4.18 WAVEFORMS	
	5. DIAGNOSIS INFORMATION	
	5.1 THE FLOW OF DIAGNOSIS	
Ε	5.2 POWER DOWN	
	5.2.1 BLOCK DIAGRAM OF THE POWER-DOWN SIGNAL	
	5.2.2 POWER DOWN OF FAILURE ANALYSIS	116
	5.3 SHUT DOWN	
	5.3.1 BLOCK DIAGRAM OF THE SHUT-DOWN SIGNAL	
	5.3.2 SHUT DOWN OF FAILURE ANALYSIS	
	5.4 NON-FAILURE SYMPTOMS	
	6. DISASSEMBLY	······································
	6.1 PCB LOCATION	
	7. ADJUSTMENT	
	7.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED	
	7.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED ON REPLACED	
F	7.2 BACKUP WHEN THE DIGITAL ASSY REPLACES	
	7.2.1 BACKUP WHEN THE DIGITAL ASSY REPLACES	
	7.2.2 BACKUP WHEN THE MAIN ASSY REPLACED	
		133

	5	-	6		7	8
7	4 EXCHANGE	THE SERVICE F	ANEL			136
	7.4.1 ATTENTION	ON WHEN SER	/ICE PANEL ASSY I	S REPLACED		136
	7.4.2 ADJUSTN	MENTS WHEN T	HE SERVICE PANE	L ASSY IS REPLAC	ED	137
7	5 ADJUSTMEN	TS WHEN THE	DRIVE ASSYS ARE	REPLACED		144
7	6 PROCEDURE	WHEN REPLA	CING THE POWER	SUPPLY UNIT		147
8. SI	ERVICE FACTO	RY MODE				148
8	2 SERVICE ME	NU MODE				149
8	3 FACTORY ME	ENU MODE				151
8	4 PANEL FACT	ORY MENU MO	DE			154
9	1 RS-232C CO	MMANDS OUTL	INE			164
	9.1.1 PREPARI	ED TOOLS				164
				-SIGNAL SYSTEM		
12. l	CINFORMATIO	N				202

8

В

С

D

Е

# 2. EXPLODED VIEWS AND PARTS LIST

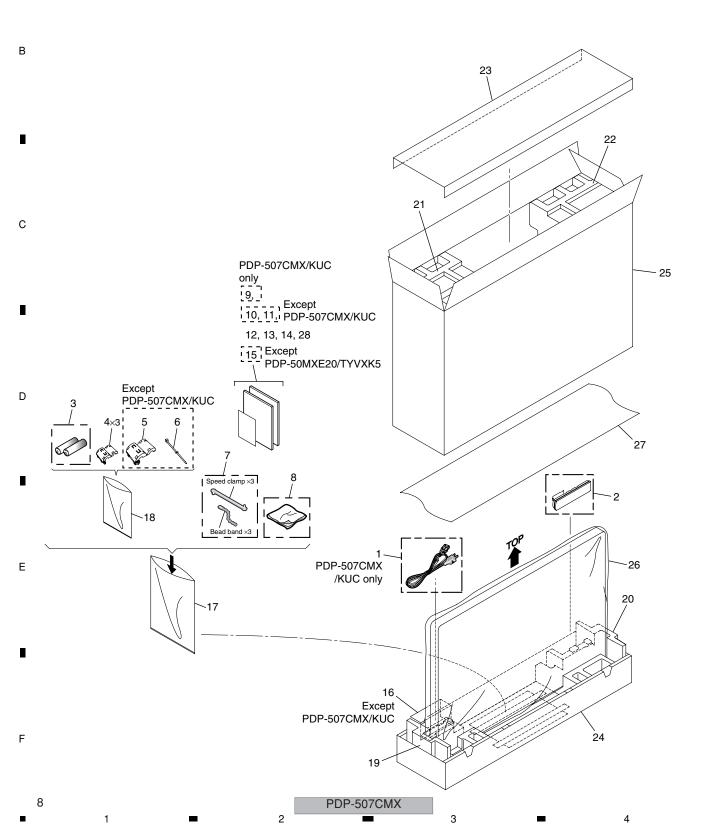
NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The 

  ↑ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to **▼** mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

#### 2.1 PACKING SECTION

Α



# (1) PACKING PARTS LIST

Mark No.	<b>Description</b>	Part No.	Mark No.	<b>Description</b>	Part No.	
<u> </u>	Power Cord (2 m)	See Contrast table (2)	NSP 14	Warranty Card	See Contrast table (2)	
2	Remote Control Unit	AXD1528	15	Supplement Sheet	See Contrast table (2)	Α
NSP 3	Dry Cell Battery (R06, AA)	See Contrast table (2)	16	Power Cord Case	See Contrast table (2)	
4	Filter (L10 to L12)	CTX1054	17	Polyethlene Bag	AHG1310	
5	Ferrite Core (L13)	See Contrast table (2)	18	Polyethlene Bag S	AHG1338	
6	Binder	See Contrast table (2)	19	Pad BL (507)	See Contrast table (2)	
7	Binder Assy	AEC1908	20	Pad BR (507)	See Contrast table (2)	
8	Cleaning Cloth	AED1285	21	Pad TL (507)	See Contrast table (2)	
9	Operating Instructions	See Contrast table (2)	22	Pad TR (507)	See Contrast table (2)	
	(English/French/Japanese)		23	Reinforce Pad (50)	See Contrast table (2)	
10	Operating Instructions	See Contrast table (2)	24	Under Carton (507)	See Contrast table (2)	В
	(English/French/German/Italian	/	25	Upper Carton	See Contrast table (2)	
	Dutch/Spanish/Chinese)		26	Mirror Mat	See Contrast table (2)	
11	Operating Instructions (CD-ROM)	See Contrast table (2)	27	Mirror Mat S	AHG1399	
12	Image Caution Sheet	ARM1220	28	Caution Card	See Contrast table (2)	
13	Caution Sheet	ARM1245				

### (2) CONTRAST TABLE

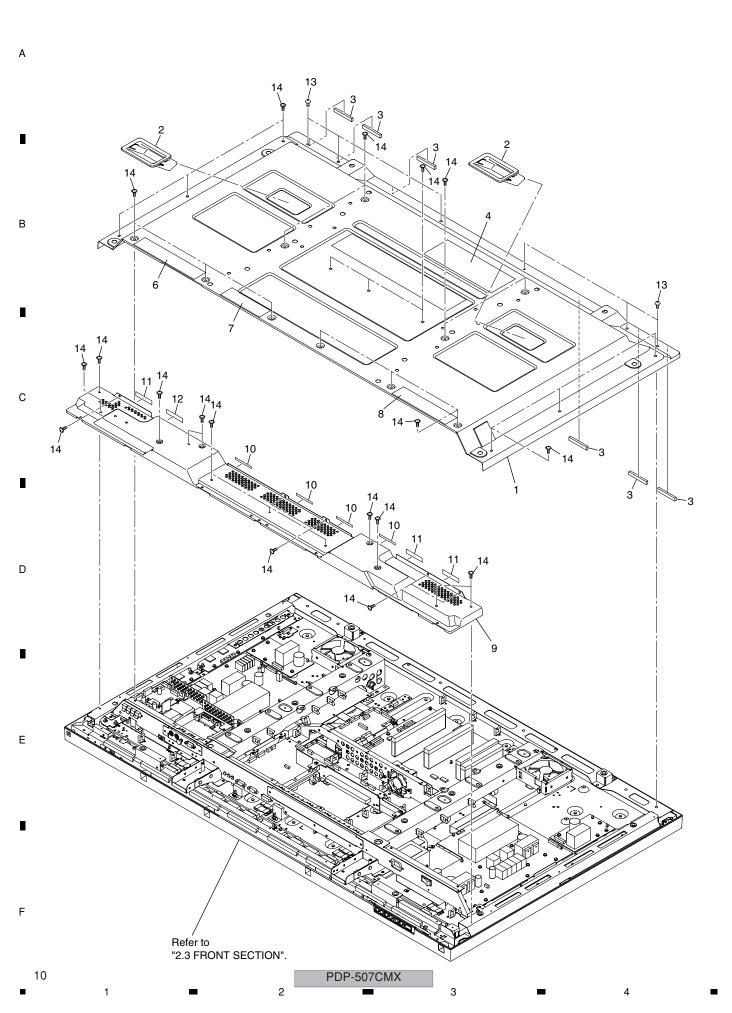
PDP-507CMX/KUC, PDP-50MXE20/LDFK5, TYVXK5 and PDP-50MXE20-S/LDF5 are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-507CMX /KUC	PDP-50MXE20 /LDFK5	PDP-50MXE20 /TYVXK5	PDP-50MXE20-S /LDF5
<u>(1</u>	1	Power Cord (2 m)	ADG1215	Not used	Not used	Not used
NSP	3	Dry Cell Battery (R06, AA)	VEM1031	AEX1025	VEM1031	AEX1025
	5	Ferrite Core (L13)	Not used	ATX1039	ATX1039	ATX1039
	6	Binder	Not used	AEC-093	AEC-093	AEC-093
	9	Operating Instructions (English/French/Japanese)	ARD1075	Not used	Not used	Not used
	10	Operating Instructions (English/French/German/Italian/Dutch/ Spanish/Chinese)	Not used	ARE1466	ARE1466	ARE1466
	11	Operating Instructions (CD-ROM)	Not used	ARU1002	ARU1002	ARU1002
NSP	14	Warranty Card	ARY1146	ARY1149	ARY1149	ARY1149
	15	Supplement Sheet	ARM1328	ARM1328	Not used	ARM1328
	16	Power Cord Case	Not used	AHC1095	AHC1094	AHC1095
	19	   Pad BL (507)	AHA2612	AHA2612	AHA2621	AHA2612
	20	Pad BR (507)	AHA2613	AHA2613	AHA2622	AHA2613
	21	Pad TL (507)	AHA2614	AHA2614	AHA2623	AHA2614
	22	Pad TR (507)	AHA2615	AHA2615	AHA2624	AHA2615
	23	Reinforce Pad (50)	AHC1088	AHC1088	AHC1093	AHC1088
	24	Under Carton (507)	AHD3473	AHD3473	AHD3498	AHD3473
	25	Upper Carton (507CMX)	AHD3505	Not used	Not used	Not used
	25	Upper Carton (MXE)	Not used	AHD3507	AHD3551	Not used
	25	Upper Carton (MXE-S)	Not used	Not used	Not used	AHD3508
	26	Mirror Mat	AHG1284	AHG1284	AHG1327	AHG1284
	28	Caution Card	ARM1329	ARM1329	ARM1330	ARM1329

С

D

Ε



# (1) REAR SECTION PARTS LIST

Mark No.	<u>Description</u>	Part No.	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	Rear Case (507CMX)	ANE1659	10	Gasket C	ANK1872	
2	Inner Grip Assy	AMR3434	11	Gasket D	ANK1873	Α
3	Rear Case Cushion	AEB1468	12	Gasket J	ANK1890	
NSP 4	Name Label	See Contrast table (2)	13	Screw	TBZ40P080FTB	
5	Caution Label	See Contrast table (2)	14	Screw	AMZ30P060FTB	
6	Terminal Label A	See Contrast table (2)				
7	Terminal Label B	See Contrast table (2)				-
8	Terminal Label C	See Contrast table (2)				
9	Bottom Cover (CMX)	ANG2953				

**(2) CONTRAST TABLE**PDP-507CMX/KUC, PDP-50MXE20/LDFK5, TYVXK5 and PDP-50MXE20-S/LDF5 are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-507CMX /KUC	PDP-50MXE20 /LDFK5	PDP-50MXE20 /TYVXK5	PDP-50MXE20-S /LDF5
NSP	4	Name Label (507CMX)	AAL2795	Not used	Not used	Not used
NSP	4	Name Label (50MXE20)	Not used	AAL2796	AAL2882	Not used
NSP	4	Name Label (50MXE20-S)	Not used	Not used	Not used	AAL2797
	5	Caution Label (M)	AAX3304	AAX3304	Not used	AAX3304
	5	Caution Label	Not used	Not used	AAX3295	Not used
	6	Terminal Label A (507CMX)	AAX3373	AAX3373	Not used	AAX3373
	6	Terminal Label A	Not used	Not used	AAX3444	Not used
	7	Terminal Label B (CMX)	AAX3251	AAX3251	Not used	AAX3251
	7	Terminal Label B	Not used	Not used	AAX3293	Not used
	8	Terminal Label C (507CMX)	AAX3374	AAX3374	Not used	AAX3374
	8	Terminal Label C	Not used	Not used	AAX3445	Not used

11

Ε

В

3

Refer to "2.4 CHASSIS SECTION (1/2)".

Α

В

Ε

PDP-507CMX

## (1) FRONT SECTION PARTS LIST

5

Mark No.	<u>Description</u>	Part No.	
1	LED2 Assy	AWW1224	
2	Front Case Assy (507CMX)	See Contrast table (2)	Α
3	Front Case Cushion	AEB1471	
4	Sheet	AED1289	
5	Pionner Name Plate	See Contrast table (2)	
6	IR Sheet (50XM6)	AMR3625	
7	PCB Spacer	AEC1947	
8	8P Housing Wire (J155)	ADX3447	
9	Filter	CTX1054	
10	Binder	AEC-093	
11	Screw	AMZ30P060FTB	E

# (2) CONTRAST TABLE

PDP-507CMX/KUC, PDP-50MXE20/LDFK5, TYVXK5 and PDP-50MXE20-S/LDF5 are constructed the same except for the following:

Ma	ark I	No.	Symbol and Description	PDP-507CMX /KUC	PDP-50MXE20 /LDFK5	PDP-50MXE20 /TYVXK5	PDP-50MXE20-S /LDF5
		2	Front Case Assy (507CMX)	AMB2994	AMB2994	AMB2994	Not used
		2	Front Case Assy (50MXE-S)	Not used	Not used	Not used	AMB2997
		5	Pioneer Name Plate	AAM1112	AAM1112	AAM1112	AAM1101

13

С

D

Ε

# (1) CHASSIS SECTION (1/2) PARTS LIST

Mark No.	Description	Part No.	Mark	<u>No.</u>	<u>Description</u>	Part No.	
1	COMM SLOT IF Assy	AWW1222		36	Gasket L	ANK1907	
2	AUDIO Assy	AWW1220		37	Terminal Panel (CMX) Assy	ANG2989	Α
3	COMM SLOT Assy	AWW1221		38	Rivet A	BEC1158	
4	KEY Assy	AWW1223		39	Front Chassis L (50XM6)	ANA2008	
<u> </u>	Fan Motor 80x25L	AXM1061		40	Front Chassis R (50XM6)	ANA2010	
6	Floating Rubber 80	AEB1427	<u> </u>	41	Power Switch (S1)	ASG1094	
7	Omega Lock	AEC2108		42	Panel Holder (50XM6)	ANG3003	
8	Mini Clamp	AEC1805		43	Front Chassis U Assy (507C)	ANA2015	
9	Fan Bracket (80)	ANG2987		44	Panel Holder H (50)	ANG2769	
10	COMM I/F Bracket (CMX)	ANG2859		45	Gasket A	ANK1848	
	5 1 0	ATV		46	Cooket K	ANK1907	В
11	Ferrite Core	ATX1039		46	Gasket K	ANK1897	Ь
12	Wire Saddle	AEC1797		47	Gasket H	ANK1888	
13	COMM Rail (CMX)	AMR3486		48	Front Chassis B Assy (507C)	ANA2053	
14	9P Housing Wire (J145)	ADX3442		49 50	Bracket LED (50XM6)	ANG3000	
NSP 15	Audio Heat Sink	ANH1648		50	Gasket D	ANK1873	
16	Radiation Sheet AUDIO	AMR3507		51	Filter	CTX1090	
17	Audio Bracket (CMX)	ANG2998		52	Bracket Control (50XM6)	ANG3001	
18	Gasket C	ANK1872		53	3P Housing Wire (J153)	ADX3446	
19	Nylon Rivet	AEP-211		54	Control Button (CMX)	AAC1559	
20	Protection Sheet 92	AMR3643		55	Sheet B	AED1284	
20	Trotodion oned 32	7 (W) 100-10					С
21	Slot Panel 92	ANG2611		56	Control Cover (507C)	See Contrast table (2)	
22	40P Housing Wire (J151)	ADX3445		57	Scan Sheet (50XM6)	AMR3617	
23	Slot Panel 262 (N)	ANG2610		58	Screw	BPZ30P080FTB	
24	Gasket G	ANK1878		59	Screw	TBZ40P080FTB	
25	Gasket B	ANK1849		60	Screw	ABA1351	
00	Gasket F	ANI/1076		61	Screw	BMP40P080FBN	
26		ANK1876		62	Screw	BBA1051	
27	Wire Saddle	AEC1745		63	Screw	ABA1318	
28	Slot Spring T94	ABK1034		64	Screw	AMZ30P060FTB	
29	Slot Spring B92	ABK1035		65	Screw	BBZ30P060FTC	D
30	Sub Frame L (CMX)	ANG2975		00	Odiow	BB2001 0001 10	
31	Sub Frame R (CMX)	ANG2978	<u> </u>	66	Housing Wire (J133)	ADX3433	
32	Slot Spring T130	ABK1032					
33	Slot Spring B126	ABK1033					
34	Multi base Support	ANG3031					
⚠ 35	AC Inlet (CN1)	AKP1311					
	•						

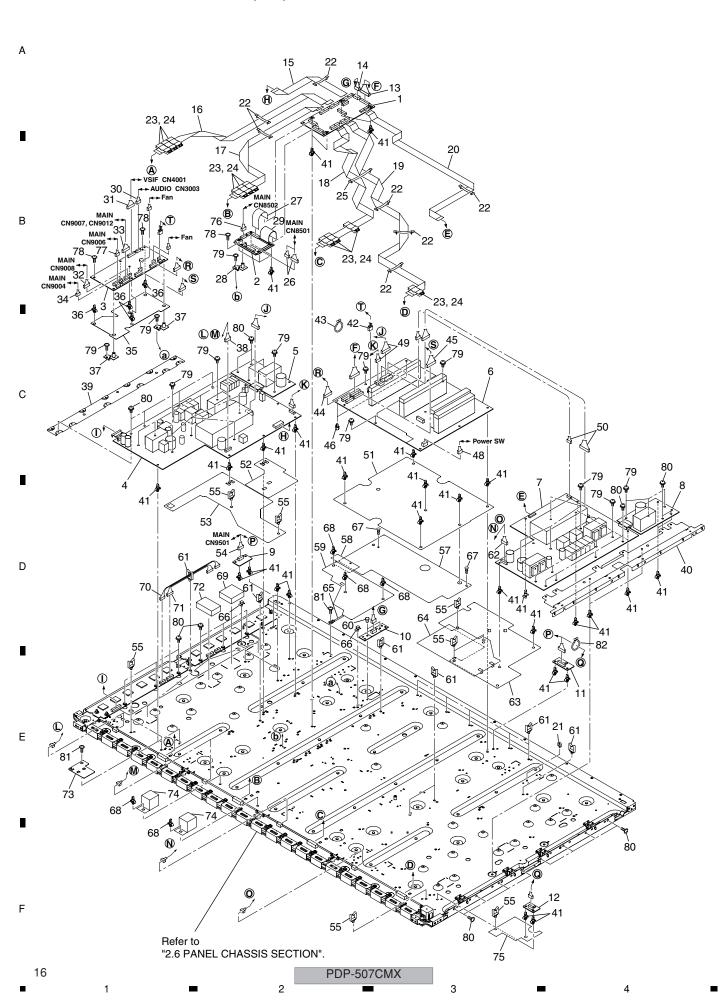
#### (2) CONTRAST TABLE

PDP-507CMX/KUC, PDP-50MXE20/LDFK5, TYVXK5 and PDP-50MXE20-S/LDF5 are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-507CMX /KUC	PDP-50MXE20 /LDFK5	PDP-50MXE20 /TYVXK5	PDP-50MXE20-S /LDF5
	56	Control Cover (507C)	AMR3622	AMR3622	AMR3622	Not used
	56	Control Cover (42MXE) S	Not used	Not used	Not used	AMR3595

15

Ε



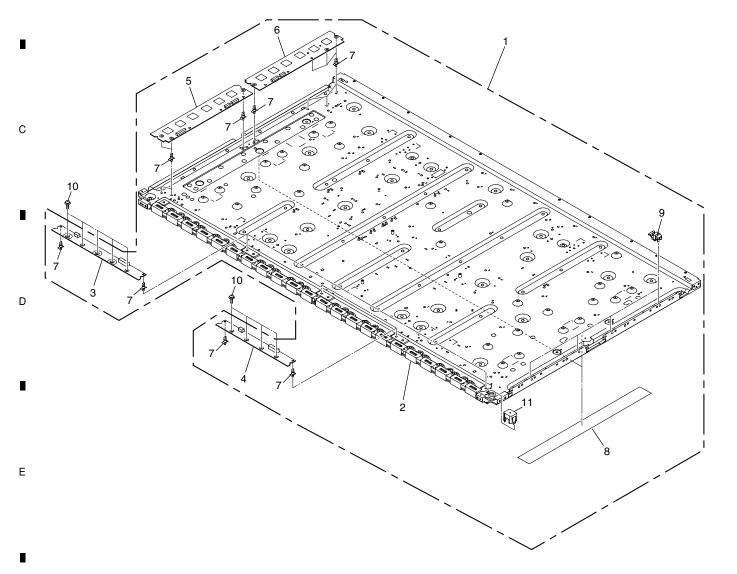
E CUA	CCIG	5 == CECTION (0/0) PARTS I	-		7	8	
CHA Mark		S SECTION (2/2) PARTS L  Description	Part No.	Mark No.	<u>Description</u>	Part No.	
WIGH	1	50 DIGITAL Assy	AWW1241	50	8P/5P Housing Wire (J102)	ADX3427	
	2	LVDS Assy	AWW1226	00	or for friedding vine (0102)	NDNO-EI	Α
	3	DD Assy	AWW1227	51	Power Sheet (507)	AMR3634	A
	3 4	50 Y MAIN DRIVE Assy	AWW1145	52	Address Sheet C	AMR3630	
	5	50 Y SUB DRIVE Assy	AWW1146	53	Address Sheet E	AMR3621	
	5	50 F SUB DRIVE ASSY	AVVVVII40	54	4P Housing Wire (J150)	ADX3444	
<u> </u>	6	POWER SUPPLY Unit	AXY1151	55	Wire Saddle	AEC1751	
<u> </u>	7	50 X MAIN DRIVE Assy	AWW1143			7.201701	
	8	50 X SUB DRIVE Assy	AWW1144	56	• • • • •		
	9	SENB Assy	AWW1217	57	Power Sheet B (507)	AMR3555	
	10	SENSOR Assy	AWW1140	58	Address Sheet J	AMR3658	
	10	OLIVOOTI A33y	AVVVIIIO	59	Address Sheet B	AMR3629	
	11	SEND Assy	AWW1219	60	Nylon Rivet	AEC1671	В
	12	SENC Assy	AWW1218		,		
	13	14P Housing Wire (J105)	ADX3354	61	Wire Saddle	AEC1745	
	14	5P Housing Wire (J110)	ADX3359	62	4P Housing Wire (J109)	ADX3432	
	15	Flexible Cable (J201)	ADD1435	63	Address Sheet A	AMR3628	
	10	Tiexible Gable (0201)	7.00	64	Address Sheet K	AMR3659	_
	16	Flexible Cable (J202)	ADD1436	65	Binder (M4)	AEC2114	
	17	Flexible Cable (J203)	ADD1463		(		
	18	Flexible Cable (J204)	ADD1466	66	PCB Support	AEC1938	
	19	Flexible Cable (J205)	ADD1465	67	Rivet A	BEC1158	
	20	Flexible Cable (J206)	ADD1440	68	PCB Support	AEC1958	
	_0			69	Drive Silicone Sheet C	AEH1110	С
	21	Mini Clamp	AEC1971	70	4P Housing Wire (J119)	ADX3346	
	22	Flat Clamp	AEC1879				
	23	Ferrite Core	ATX1048	71	10P Housing Wire (J120)	ADX3300	
	24	Ferrite Clamp	AEC1986	72	Drive Silicone Sheet B	AEH1109	
	25	Flat Clamp 60	AEC2104	73	Ferrite Clamp Base	ANG3030	
		·		74	Gasket E	ANK1874	
	26	3P/31P Cable (J140)	ADX3437	75	Address Sheet L	AMR3660	
	27	20P Flexible Cable (J207)	ADD1471				
	28	LVDS unit Base	ANG3027	76	20P Housing Wire (J139)	ADX3436	
	29	50P Flexible Cable (J208)	ADD1472	77	7P Housing Wire (J142)	ADX3439	D
	30	6P Housing Wire (J143)	ADX3440	78	Screw	AMZ30P060FTB	D
				79	Screw	ABA1351	
	31	13P Housing Wire (J137)	ADX3435	80	Screw	ABA1364	
	32	8P Housing Wire (J141)	ADX3438				
	33	6P/7P/12P Housing Wire (J144)	ADX3441	81	Screw	TBZ40P080FTB	_
	34	4P Housing Wire (J147)	ADX3443	82	Omega Lock	AEC2108	
	35	DC Unit Sheet	AMR3612				
	36	PCB Spacer	AEC1126				
	37	DD Unit Base	ANG3005				
	38	4P Housing Wire (J108)	ADX3431				E
	39	Conductive Plate Y	ANG2902				
	40	Conductive Plate X	ANG2905				
	41	Re-use PCB Spacer	AEC2087				
	42	3P Housing Wire (J130)	ADX3428				
	43	Omega Lock	AEC2084				

43 Omega Lock AEC2084 10P Housing Wire (J132) ADX3430 13P Housing Wire (J131) ADX3429 AEC2103 Tapping Card Spacer 48 Housing Wire (J134) ADX3434 49 9P/6P/5P Housing Wire (J101) ADX3426 17 PDP-507CMX 5 8

44

45

46



PDP-507CMX

# PANEL CHASSIS SECTION PARTS LIST

<u>Description</u>	Part No.
Panel Chassis (507) Assy	AWU1148
Plasma Panel (50DC) Assy	AWU1162
50 ADDRESS L Assy	AWW1141
50 ADDRESS S Assy	AWW1142
50 SCAN A Assy	AWW1147
50 SCAN B Assy	AWW1148
Re-use PCB Spacer	AEC2087
Adhesive Tape (50)	AEH1119
Conductive Plate Holder	AMR3446
Screw	ABA1351
Tube Cover	AMR3445
	Panel Chassis (507) Assy Plasma Panel (50DC) Assy 50 ADDRESS L Assy 50 ADDRESS S Assy 50 SCAN A Assy 50 SCAN B Assy Re-use PCB Spacer Adhesive Tape (50) Conductive Plate Holder Screw

В

С

D

Е

7 -

19

PDP-507CMX

Α

20

PDP-507CMX

# (1) MULTI BASE SECTION PARTS LIST

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.	
1	MAIN Assy	See Contrast table (2)	12	Ferrite Core	ATX1039	
2	VSIF Assy	See Contrast table (2)	13	Wire Saddle	AEC1745	Α
3	Vlideo I/F Bracket (CMX)	ANG2858	14	Filter	CTX1054	
4	DVI Heat Sink	ANH1665	15	PCB Support	AEC1958	
5	Radiation Sheet AUDIO	AMR3507				
			16	Wire Saddle	AEC1797	
6	50P Flexible Flat Cable (J209)	ADD1475	17	Multi Base (CMX)	ANA2006	_
7	20P Housing Wire (J138)	ADX3274	18	PCB Sleeve	AMR3518	
8	Video Rail (CMX)	AMR3485	19	Screw	PMB30P100FNI	
9	Fan Bracket (60)	ANG2988	20	Screw	ABA1351	
<u> 1</u> 0	Fan Motor 60x25L	AXM1060				
			21	Screw	AMZ30P060FTB	
11	Floating Rubber 60	AEB1410				В

# (2) CONTRAST TABLE

5

PDP-507CMX/KUC, PDP-50MXE20/LDFK5, TYVXK5 and PDP-50MXE20-S/LDF5 are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-507CMX /KUC	PDP-50MXE20 /LDFK5	PDP-50MXE20 /TYVXK5	PDP-50MXE20-S /LDF5
	1	MAIN Assy	AWW1199	AWW1201	AWW1201	AWW1201
	2	VSIF Assy	AWW1200	AWW1202	AWW1202	AWW1202

21

С

D

Ε

PDP-507CMX

#### - 6 -

## • EXTERIOR SECTION PARTS LIST

Mark	<u>No.</u>	Description	Part No.	No. of pcs	Remarks
	1	Panel Chassis (507) Assy	AWU1148	×1	
	2	Front Chassis VL (50)	AMA1014	×1	Not used
	3	Front Chassis VR (507)	AMA1022	×1	Not used
	4	Sub Frame L Assy 507	ANA1945	×1	Not used
	5	Sub Frame R Assy 507	ANA1946	×1	Not used
	6	Front Chassis H Assy (507)	ANA2058	×1	Not used
	7	Conductive Plate X	ANG2905	×1	
	8	Cushion	AEB1424	×1	Not used
NSP	9	PCB Spacer	AEC1126	×4	
	10	PCB Spacer	AEC1570	×2	
	11	Wire Saddle	AEC1745	×11	
	12	Wire Saddle	AEC1751	×9	
	13	Screw Rivet	AEC1877	×4	
	14	PCB Support	AEC1938	×2	
	15	PCB Support	AEC1958	×5	
	16	Mini Clamp	AEC1971	×1	
	17	Ferrite Clamp	AEC1986	×10	
	18	Re-use PCB Spacer	AEC2087	×2	
	19	DC Unit Sheet	AMR3612	×1	
	20	Address Sheet E	AMR3621	×1	
	21	Address Sheet A	AMR3628	×1	
	22	Address Sheet B	AMR3629	×1	
	23	Address Sheet J	AMR3658	×1	
	24	Address Sheet K	AMR3659	×1	
	25	Address Sheet L	AMR3660	×1	
	26	Gasket E	ANK1874	×2	
	27	Rivet A	BEC1158	×2	
	28	Ferrite Clamp Base	ANG3030	×1	
NSP	29	Front Case Assy (507SV)	AMB2977	×1	Not used (for transport)
	30	Rear Case (507)	ANE1656	×1	Not used
	31	Screw (3 x 40P)	ABA1332	×2	
	32	Screw	ABA1351	×24	
	33	••••			
	34	Screw	ABA1364	×8	
	35	Screw	ABZ30P080FTC	×6	
	36	Screw	AMZ30P060FTB	×10	
	37	Screw	APZ30P080FTB	×2	
	38	Screw	TBZ40P080FTB	×28	
NSP	39	Drive Voltage Label	ARW1097	x1	

23

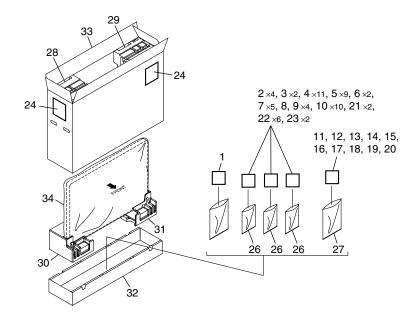
Ε

В

PDP-507CMX

# PACKING SECTION

В



3

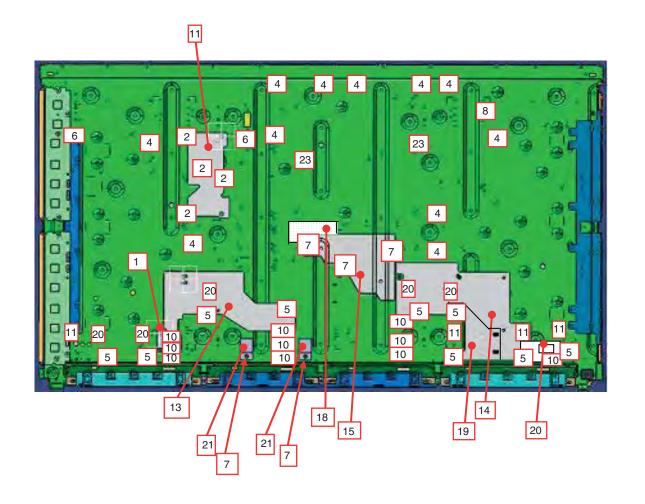
#### **C • PACKING SECTION PARTS LIST**

Mark	No.	Description	Part No.	No. of _pcs	Remarks
	1	Ferrite Clamp Base	ANG3030	×1	(No. 28 of exterior)
NSP	2	PCB Spacer	AEC1126	×4	(No. 9 of exterior)
	3	PCB Spacer	AEC1570	×2	(No. 10 of exterior)
	4	Wire Saddle	AEC1745	×11	(No. 11 of exterior)
•	5	Wire Saddle	AEC1751	×9	(No. 12 of exterior)
	6	PCB Support	AEC1938	×2	(No. 14 of exterior)
	7	PCB Support	AEC1958	×5	(No. 15 of exterior)
	8	Mini Clamp	AEC1971	×1	(No. 16 of exterior)
	9	Harness Lifter 28	AEC1982	×4	Not used
)	10	Ferrite Clamp	AEC1986	×10	(No. 17 of exterior)
	11	DC Unit Sheet	AMR3612	×1	(No. 19 of exterior)
	12	Address Sheet A (50X7)	AMR3615	×1	Not used
	13	Address Sheet E	AMR3621	×1	(No. 20 of exterior)
	14	Address Sheet A	AMR3628	×1	(No. 21 of exterior)
	15	Address Sheet B	AMR3629	×1	(No. 22 of exterior)
	16	Address Sheet D	AMR3631	×1	Not used
	17	Address Sheet F	AMR3646	×1	Not used
	18	Address Sheet J	AMR3658	×1	(No. 23 of exterior)
	19	Address Sheet K	AMR3659	×1	(No. 24 of exterior)
	20	Address Sheet L	AMR3660	×1	(No. 25 of exterior)
	21	Gasket E	ANK1874	×2	(No. 26 of exterior)
	22	Gasket AV8	ANK1881	×6	Not used
	23	Rivet A	BEC1158	×2	(No. 27 of exterior)
	24	Caution Label	AAX3031	×2	
	25	• • • •		×1	
]	25	Polyethylene Bag	AHG1337	×1	
	26	Polyethylene Bag S	AHG1338	×3	
NSP	27	Polyethylene Bag	AHG1340	×1	
	28	Pad (507 T-L)	AHA2538	×1	
	29	Pad (507 T-R)	AHA2539	×1	
	30	Pad (507 B-L)	AHA2540	×1	
	31	Pad (507 B-R)	AHA2541	×1	
	32	Under Carton (507)	AHD3473	×1	
	33	Upper Carton (507SV)	AHD3550	×1	
	34	Protect Sheet	AHG1331	×1	
24			PDF	P-507CMX	
_		_	2		

No.	Description	on	No.	Description	on	No.	Descrip	tion
1	Ferrite Clamp Base	M 0	8	Mini Clamp	T C	18	Address Sheet J	
2	PCB Spacer	*	10	Ferrite Clamp		19	Address Sheet K	
4	Wire Saddle	Ţ	11	DC Unit Sheet		20	Address Sheet L	
5	Wire Saddle	书	13	Address Sheet E		21	Gasket E	8
6	PCB Support	1	14	Address Sheet A		23	Rivet A	7
7	PCB Support	*	15	Address Sheet B	-			

5

5



25

PDP-507CMX

7

8

8

В

С

D

Ε

# 3. PCB PARTS LIST

Α

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

• The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{-1} \rightarrow 5621 \dots RN1/4PC[5||6||2||1]F$ 

#### ■ LIST OF WHOLE PCB ASSEMBLIES

	Mark	Symbol and Description	PDP-507CMX /KUC	PDP-50MXE20 /LDFK5	PDP-50MXE20 /TYVXK5	PDP-50MKE20-S /LDF5
Ī	NSP	1PANEL CHASSIS ASSY	AWU1148	AWU1148	AWU1148	AWU1148
	NSP	250 ADDRESS ASSY	AWV2303	AWV2303	AWV2303	AWV2303
_	NSP	350 ADDRESS L ASSY	AWW1141	AWW1141	AWW1141	AWW1141
	NSP	350 ADDRESS S ASSY	AWW1142	AWW1142	AWW1142	AWW1142
	NSP	250 SCAN ASSY	AWV2304	AWV2304	AWV2304	AWV2304
	NSP	350 SCAN A ASSY	AWW1147	AWW1147	AWW1147	AWW1147
	NSP	350 SCAN B ASSY	AWW1148	AWW1148	AWW1148	AWW1148
	NSP	150 X DRIVE ASSY	AWV2305	AWV2305	AWV2305	AWV2305
		250 X MAIN DRIVE ASSY	AWW1143	AWW1143	AWW1143	AWW1143
		250 X SUB DRIVE ASSY	AWW1144	AWW1144	AWW1144	AWW1144
	NSP	150 Y DRIVE ASSY	AWV2306	AWV2306	AWV2306	AWV2306
		250 Y MAIN DRIVE ASSY	AWW1145	AWW1145	AWW1145	AWW1145
		250 Y SUB DRIVE ASSY	AWW1146	AWW1146	AWW1146	AWW1146
	NSP	150 DIGITAL ASSY	AWV2436	AWV2436	AWV2436	AWV2436
		250 DIGITAL ASSY	AWW1241	AWW1241	AWW1241	AWW1241
		2SENSOR ASSY	AWW1140	AWW1140	AWW1140	AWW1140
	NSP	1MAIN ASSY (50CMX)	AWV2377	AWV2403	AWV2403	AWV2403
5		2MAIN ASSY	AWW1199	AWW1201	AWW1201	AWW1201
		2VSIF ASSY	AWW1200	AWW1202	AWW1202	AWW1202
	NSP	1SUB ASSY (50CMX)	AWV2406	AWV2406	AWV2406	AWV2406
		2SENB ASSY	AWW1217	AWW1217	AWW1217	AWW1217
		2SENC ASSY	AWW1218	AWW1218	AWW1218	AWW1218
1		2SEND ASSY	AWW1219	AWW1219	AWW1219	AWW1219
		2AUDIO ASSY	AWW1220	AWW1220	AWW1220	AWW1220
		2COMMSLOT ASSY	AWW1221	AWW1221	AWW1221	AWW1221
		2COMMSLOT IF ASSY	AWW1222	AWW1222	AWW1222	AWW1222
		2KEY ASSY	AWW1223	AWW1223	AWW1223	AWW1223
		2LED2 ASSY	AWW1224	AWW1224	AWW1224	AWW1224
=	NSP	1MDIF ASSY (50CM)	AWV2419	AWV2419	AWV2419	AWV2419
		2LVDS ASSY	AWW1226	AWW1226	AWW1226	AWW1226
		2DD ASSY	AWW1227	AWW1227	AWW1227	AWW1227
	<u> </u>	1POWER SUPPLY UNIT	AXY1151	AXY1151	AXY1151	AXY1151

26

PDP-507CMX

## **■ CONTRAST OF PCB ASSEMBLIES**

#### **MAIN ASSY**

AWV1199 and AWV1201 are constructed the same except for the following:

Mark	Symbol and Description	AWV1199	AWV1201	
	R9111	RS1/10SR0R0J	Not used	
	R9112	Not used	RS1/10SR0R0J	

#### **VSIF ASSY**

D1756,1758,1766,1768

D1776,1778,1786,1788

5

D1767,1777,1787

D1771,1781

D1774,1784

AWW1200 and AWW1202 are constructed the same except for the following:

Mark	Symbol and Description	AWW1200	AWW1202
	R4042	RS1/10SR0R0J	Not used
	R4043	Not used	RS1/10SR0R0J

#### ■ PCB PARTS LIST FOR PDP-507CMX/KUC UNLESS OTHER WISE NOTED

o Port No	Mark No Description	Part No.
<u>rart No.</u>	mark ro. Besonption	<u>rarrivo.</u>
	<b>MISCELLANEOUS</b>	
		ATH1199
	L1770,1780	ATH1199
	RESISTORS	
PEE003B	-,	RS1/16SS220J
	Other Resistors	RS1/16S###J
OTI 1010	CAPACITORS	
	C1710	CKSYB105K25
	C1711 (0.1 uF / 100 V)	ACG1098
ANIVIT346	C1730,1740,1750,1760	ACG1137
	C1731,1741,1751,1761	ACG1136
DC1/10001000E	C1770,1780	ACG1137
RS1/1655###J	C1771,1781	ACG1136
CKSSYF104Z16		
CKSSYB102K50	50 ADDRESS S ASSY	
CKSRYB105K6R3	OU ADDITEOU O ACOT	
ACG1105	IEO ADD C I OCICI	
CKSSYF104Z16	[30 ADR S LOGIC]	
CCSSCH390J50	<b>SEMICONDUCTORS</b>	
0000011000000	IC1801	PEE003B
	MISCELL ANEOUS	
	•	QTL1013
		AKM1290
TND207TD		AKM1348
	0.1.002 10. 00.11.20.01.	7
	RESISTORS	
		RS1/16SS1000F
2SA1163	Other Resistors	RS1/16SS###J
RN1901		
	C1801-1804,1807	CKSSYF104Z16
	C1805,1806	CKSSYB102K50
		CKSRYB105K6R3
188355		ACG1105
	QTL1013 AKM1290 AKM1348  RS1/16SS1000F RS1/16SS###J  CKSSYF104Z16 CKSSYB102K50 CKSRYB105K6R3 ACG1105 CKSSYF104Z16  CCSSCH390J50  TND307TD QSZ2 HAT3041R HAT3041R 12SA1163	MISCELLANEOUS   L1730,1740,1750,1760   L1770,1780

27

CKSSYF104Z16

CCSSCH390J50

CCSSCH101J50

8

В

С

D

Ε

F

C1857-1861

C1864

C1866

1SS355

1SS302

1SS355

UDZS15(B)

EP05FA20

1		2		3	-	4
Mark No. Dese	cription	Part No.		Mark No.	Description	Part No.
SEMICONDUCTORS	-			C2848-2850,2	858-2860	CCSRCH151J50
IC1920	_	TND307TD				
Q1910,1911		QSZ2 HAT3041R		50 SCAN E	BASSY	
Q1931,1941,1951,1961 Q1971		HAT3041R		SEMICONDU	ICTORS	
Q1990		2SA1163		IC2901-2906	ic rons	SN755870KPZT-P
04004		DN1001		IC2907		TC7SH08FUS1
Q1991 D1910,1937,1947,1957		RN1901 1SS302		D2902-2908		1SS302
D1931,1941,1951,1961		UDZS15(B)		D2909		1SS355
D1934,1944,1954,1964		EP05FA20		MISCELLAN	EOUS	
D1936,1938,1946,1948		1SS355		CN2901 CON	NECTOR 10P	AKM1281
D1956,1958,1966,1968		1SS355		CN2902 PH C	CONNECTOR	AKP1306
D1967,1977		1SS302		RESISTORS		
D1971		UDZS15(B)		R2903,2908,2	911.2914	RAB4C221J
D1974 D1976,1978		EP05FA20 1SS355		R2917,2920	· · · · · · · · · · · · · · · · · · ·	RAB4C221J
21070,1070		100000		Other Resistor	S	RS1/16S###J
<b>MISCELLANEOUS</b>				CAPACITORS	9	
L1930,1940,1950,1960		ATH1199			911,2912 (0.1 uF/250 V)	ACG1088
L1970		ATH1199		C2903,2913,2	,	CKSRYB105K6R3
RESISTORS				C2905-2907,2		CCSRCH220J50
R1910,1911		RS1/16SS220J		C2908-2910,2	918-2920 931,2932 (0.1 uF/250 V)	CCSRCH151J50 ACG1088
Other Resistors		RS1/16S###J		02921,2922,2	951,2952 (0.1 uF/250 V)	ACG 1000
CAPACITORS				C2925-2927,2	935-2937	CCSRCH220J50
C1910		CKSYB105K25		C2928-2930,2		CCSRCH151J50
C1911 (0.1 uF / 100 V)		ACG1098		C2941,2942,29 C2943,2953,29	951,2952 (0.1 uF/250 V)	ACG1088 CKSRYB105K6R3
C1930,1940,1950,1960		ACG1137		C2945-2947,2		CCSRCH220J50
C1931,1941,1951,1961		ACG1136		·		
C1970		ACG1137		C2948-2950,2	958-2960	CCSRCH151J50
C1971		ACG1136				
				50 X MAIN	<b>DRIVE ASSY</b>	
50 SCAN A ASS	Υ			[50X LOGIC B	LOCK]	
SEMICONDUCTORS	3			OF MOON DI		
IC2801-2806	<u> </u>	SN755870KPZT-P		SEMICONDU IC1001	ICTORS	TC74ACT541FT
D2801		CRH01		IC1001		TC74VHC00FTS1
D2802-2807,2809,2811 D2810		1SS302 1SS355		D1001-1004		1SS355
D2010		133333		MICOELLAN	E0110	
<b>MISCELLANEOUS</b>				MISCELLAN K1004.1007 T		AKX1061
CN2801 13P CONNEC		AKP1261		,	CONNECTOR	VKN1310
CN2802 CONNECTOR CN2803 PH CONNECT	-	AKM1281 AKP1306				
CN2003 PH CONNECT	ION	ANT 1300		<b>RESISTORS</b>		
<b>RESISTORS</b>				R1001,1006 R1004		RAB4C470J RAB4C472J
R2805,2810,2813,2816		RAB4C221J		VR1004		CCP1390
R2819,2822		RAB4C221J		Other Resistor	S	RS1/16S###J
Other Resistors		RS1/16S###J			_	
CAPACITORS				CAPACITORS	<u>S</u>	OF LIAT 470M4 C
C2801,2802,2811,2812	(0.1 uF/250 V)	ACG1088		C1001 C1002,1003		CEHAT470M16 CKSRYB104K16
C2803,2813,2823,2833		CKSRYB105K6R3		C1004		CCSRCH331J50
C2805-2807,2815-2817 C2808-2810,2818-2820		CCSRCH220J50 CCSRCH151J50		C1006		CCSRCH680J50
C2821,2822,2831,2832		ACG1088				
	,	000001/		[50X RESONA	NCE BLCOK1	
C2825-2827,2835-2837		CCSRCH220J50		10011		
C2828-2830,2838-2840 C2841,2842,2851,2852		CCSRCH151J50 ACG1088		<b>SEMICONDU</b>	ICTORS	
C2843,2853	(3 3. /200 )	CKSRYB105K6R3		IC1101,1105		TND307TD
C2845-2847,2855-2857		CCSRCH220J50		IC1102		PS9117P
28		PDP-5				
1		2	_	3	-	4

Α

В

С

D

Е

Mark No. Description	Part No.	Mark No. Description	Part No.	
IC1104	AXF1163	KN1201-1204,1210-1217	ANK1841	
IC1107	PS2701A-1(L)	1441201 1201,1210 1217	7	
Q1101	2SC2412K	CN1201 14P CONNECTOR	14PL-FJ	
		CN1204 8P TOP POST	B8B-EH	
Q1102,1103	QSZ2	1202 SCREW	PMB30P080FNI	
Q1104,1105	2SC4081	CN1205 5P PLUG	KM200NA5	
D1101,1103	UDZS5R6(B)	CN1202 8P PLUG	KM200NA8	
D1102	CRH01	DECICTORS		
D1104	UDZS15(B)	RESISTORS		
AICCELL ANEOLIC		R1208,1210,1213,1215	RS1/10S100J	
MISCELLANEOUS	ATL 14 04 7	R1211	ACN1254	
L1101 L1106	ATH1217 ATH1216	R1219,1228,1230,1231 R1220,1224,1233,1256	RS1/10S0R0J RS1/10S2R2J	
F1101	CTF1449	R1237	RS1/10S0R0J	
1101 DRIVE HEATSINK DK	ANH1653	111207	1101/10001100	
1102 DRIVE RADIATION SHEET	AEH1092	R1239	ACN1258	
1103 SCREW	BMZ30P080FTC	R1245	ACN1257	
		R1247,1248	RS3LMF470J	
RESISTORS		Other Resistors	RS1/16S###J	
R1107,1108	RS3LMF100J			
R1109,1110	RS1/10S4702F	<u>CAPACITORS</u>		
R1113	RS1/16S1002F	C1201,1212 (470 pF / 630 V)	ACG1126	
R1114	RS1/16S3302F	C1202,1209,1232,1236	CKSRYB104K16	
R1115	ACN1259	C1203,1208,1215,1229	CKSRYF104Z50	
D4440	AON4050	C1205,1206,1217,1218	ACG1139	
R1119 R1121	ACN1258 RS1/16S4701F	C1207,1214,1220,1226	CEHAT470M25	
Other Resistors	RS1/16S###J	C1210,1211,1216,1241	CKSYB105K25	
Other 1 (03)3(013	110 1/100πππ0	C1210,1211,1210,1241 C1213	CCSRCH221J50	
CAPACITORS		C1222,1223	ACH1423	
C1101,1114	CEHAT470M25	C1224,1225	ACE1178	
C1102,1115	CKSRYF104Z50	C1228	CEHAT2R2M2E	
C1103	CKSRYB104K16			
C1104,1117	CKSYB105K25	C1230	ACH1449	
C1107,1116 (470 pF / 630 V)	ACG1126	C1231,1237	CEHAT101M10	
		C1233	CKSRYB473K16	
C1113	ACH1450	C1234	CEHAT470M16	
C1121-1124	ACE1178	C1235	CKSRYB105K6R3	
		C1244	CKSRYB104K25	
50X SUS BLOCK]		01244	ONOTTI DIO4N20	
SUX SUS BLUCK]				
SEMICONDUCTORS		[DRIVE HEATSINK M]		
IC1201,1204,1206,1208	TND307TD	-		
IC1201,1204,1206,1208	PS9117P	<b>MISCELLANEOUS</b>		
IC1209	MM1565AF	3001,3001 DRIVE HEATSINK M	ANH1654	
Q1201,1208	2SC2412K	3001 DRIVE HEATSINK M	ANH1656	
	H5N2512LS	3101,3101 SPACER	ANG2679	
Q1202,1204,1205,1207		3101 SPACER	ANG2679	
Q1202,1204,1205,1207		SIUI SPACEN		
Q1209,1212-1214	QSZ2	SIUI SPACEN		
Q1209,1212-1214 Q1210,1211	FKP280AS			
Q1209,1212-1214 Q1210,1211 Q1215,1221	FKP280AS FKP300AS	[50X D-D CON BLOCK]		
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216	FKP280AS FKP300AS DTC143EK	[50X D-D CON BLOCK]		
Q1209,1212-1214 Q1210,1211 Q1215,1221	FKP280AS FKP300AS	[50X D-D CON BLOCK]  SEMICONDUCTORS		
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217	FKP280AS FKP300AS DTC143EK DTC123TKA	[50X D-D CON BLOCK]  SEMICONDUCTORS IC1301	PS2701A-1(L)	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217	FKP280AS FKP300AS DTC143EK DTC123TKA R5009ANJ	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302	PS2701A-1(L) TA76431FR	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217 Q1220 D1201,1205	FKP280AS FKP300AS DTC143EK DTC123TKA R5009ANJ UDZS5R6(B)	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302 Q1301	PS2701A-1(L) TA76431FR 2SC2412K	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217	FKP280AS FKP300AS DTC143EK DTC123TKA R5009ANJ	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302 Q1301 Q1303,1306,1307	PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217 Q1220 D1201,1205 D1202,1203,1206,1211	FKP280AS FKP300AS DTC143EK DTC123TKA  R5009ANJ UDZS5R6(B) CRH01	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302 Q1301	PS2701A-1(L) TA76431FR 2SC2412K	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217 Q1220 D1201,1205 D1202,1203,1206,1211 D1204	FKP280AS FKP300AS DTC143EK DTC123TKA  R5009ANJ UDZS5R6(B) CRH01 D1FL40	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302 Q1301 Q1303,1306,1307	PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217 Q1220 D1201,1205 D1202,1203,1206,1211 D1204 D1209	FKP280AS FKP300AS DTC143EK DTC123TKA  R5009ANJ UDZS5R6(B) CRH01 D1FL40	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302 Q1301 Q1303,1306,1307 Q1304,1401	PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217  Q1220 D1201,1205 D1202,1203,1206,1211 D1204 D1208  D1209 D1210	FKP280AS FKP300AS DTC143EK DTC123TKA R5009ANJ UDZS5R6(B) CRH01 D1FL40 1SS302 UDZS16(B) 1SS355	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302 Q1301 Q1303,1306,1307 Q1304,1401  Q1305	PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898  2SA1037K 2SC4081 CRF03	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217  Q1220 D1201,1205 D1202,1203,1206,1211 D1204 D1208  D1209 D1210 D1212	FKP280AS FKP300AS DTC143EK DTC123TKA  R5009ANJ UDZS5R6(B) CRH01 D1FL40 1SS302  UDZS16(B) 1SS355 CRH01	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302 Q1301 Q1303,1306,1307 Q1304,1401  Q1305 Q1402 D1307 D1308,1403	PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898  2SA1037K 2SC4081 CRF03 UDZS5R1(B)	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217  Q1220 D1201,1205 D1202,1203,1206,1211 D1204 D1208  D1209 D1210	FKP280AS FKP300AS DTC143EK DTC123TKA R5009ANJ UDZS5R6(B) CRH01 D1FL40 1SS302 UDZS16(B) 1SS355	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302 Q1301 Q1303,1306,1307 Q1304,1401  Q1305 Q1402 D1307	PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898  2SA1037K 2SC4081 CRF03	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217  Q1220 D1201,1205 D1202,1203,1206,1211 D1204 D1208  D1209 D1210 D1212 D1213	FKP280AS FKP300AS DTC143EK DTC123TKA  R5009ANJ UDZS5R6(B) CRH01 D1FL40 1SS302  UDZS16(B) 1SS355 CRH01	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302 Q1301 Q1303,1306,1307 Q1304,1401  Q1305 Q1402 D1307 D1308,1403 D1309,1311,1401,1405	PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898  2SA1037K 2SC4081 CRF03 UDZS5R1(B) CRH01	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217  Q1220 D1201,1205 D1202,1203,1206,1211 D1204 D1208  D1209 D1210 D1212 D1213	FKP280AS FKP300AS DTC143EK DTC123TKA  R5009ANJ UDZS5R6(B) CRH01 D1FL40 1SS302  UDZS16(B) 1SS355 CRH01 UDZS8R2(B)	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302 Q1301 Q1303,1306,1307 Q1304,1401  Q1305 Q1402 D1307 D1308,1403 D1309,1311,1401,1405  D1312,1402	PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898  2SA1037K 2SC4081 CRF03 UDZS5R1(B) CRH01 1SS301	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217  Q1220 D1201,1205 D1202,1203,1206,1211 D1204 D1208  D1209 D1210 D1212 D1213  MISCELLANEOUS L1201,1203,1204	FKP280AS FKP300AS DTC143EK DTC123TKA  R5009ANJ UDZS5R6(B) CRH01 D1FL40 1SS302  UDZS16(B) 1SS355 CRH01 UDZS8R2(B)	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302 Q1301 Q1303,1306,1307 Q1304,1401  Q1305 Q1402 D1307 D1308,1403 D1309,1311,1401,1405  D1312,1402 D1313,1318,1404,1406	PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898  2SA1037K 2SC4081 CRF03 UDZS5R1(B) CRH01  1SS301 1SS355	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217  Q1220 D1201,1205 D1202,1203,1206,1211 D1204 D1208  D1209 D1210 D1212 D1213  MISCELLANEOUS L1201,1203,1204 L1202	FKP280AS FKP300AS DTC143EK DTC123TKA  R5009ANJ UDZS5R6(B) CRH01 D1FL40 1SS302  UDZS16(B) 1SS355 CRH01 UDZS8R2(B)  BTH1134 ATH1186	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302 Q1301 Q1303,1306,1307 Q1304,1401  Q1305 Q1402 D1307 D1308,1403 D1309,1311,1401,1405  D1312,1402	PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898  2SA1037K 2SC4081 CRF03 UDZS5R1(B) CRH01 1SS301	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217  Q1220 D1201,1205 D1202,1203,1206,1211 D1204 D1208  D1209 D1210 D1212 D1213  MISCELLANEOUS L1201,1203,1204 L1202 F1227	FKP280AS FKP300AS DTC143EK DTC123TKA  R5009ANJ UDZS5R6(B) CRH01 D1FL40 1SS302  UDZS16(B) 1SS355 CRH01 UDZS8R2(B)  BTH1134 ATH1186 CTF1449	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302 Q1301 Q1303,1306,1307 Q1304,1401  Q1305 Q1402 D1307 D1308,1403 D1309,1311,1401,1405  D1312,1402 D1313,1318,1404,1406	PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898  2SA1037K 2SC4081 CRF03 UDZS5R1(B) CRH01  1SS301 1SS355	
Q1209,1212-1214 Q1210,1211 Q1215,1221 Q1216 Q1217  Q1220 D1201,1205 D1202,1203,1206,1211 D1204 D1208  D1209 D1210 D1212 D1213  MISCELLANEOUS L1201,1203,1204 L1202	FKP280AS FKP300AS DTC143EK DTC123TKA  R5009ANJ UDZS5R6(B) CRH01 D1FL40 1SS302  UDZS16(B) 1SS355 CRH01 UDZS8R2(B)  BTH1134 ATH1186 CTF1449 AKX1061	[50X D-D CON BLOCK]  SEMICONDUCTORS  IC1301 IC1302 Q1301 Q1303,1306,1307 Q1304,1401  Q1305 Q1402 D1307 D1308,1403 D1309,1311,1401,1405  D1312,1402 D1313,1318,1404,1406	PS2701A-1(L) TA76431FR 2SC2412K HN1C01FU 2SD1898  2SA1037K 2SC4081 CRF03 UDZS5R1(B) CRH01  1SS301 1SS355 UDZS4R7(B)	

	1 -	2	_	3	-	4
	Mark No. Description	Part No.		Mark No.	Description	Part No.
	MISCELLANEOUS T1302	ATK1160		MISCELLAN	FOUS	
	T1401	ATK1159		K2011,2014 T CN2001 40P (	EST PIN	AKX1061 AKM1348
•	RESISTORS			ON2001 401 V	OOMNEOTON	ANNITOHO
	R1312-1314,1317	RS1/10S224J		<b>RESISTORS</b>		
	R1328	RAB4C472J		R2001,2003,20	008,2020	RAB4C470J
	VR1301 Other Resistors	CCP1392 RS1/16S###J		R2002,2006 R2004,2005,20	012 2025	RAB4C101J RAB4C472J
	Other nesistors	NO 1/100###J		VR2001,2005,20	013,2023	CCP1390
	CAPACITORS			Other Resistor	S	RS1/16S###J
	C1301,1302,1405,1406	CKSRYB104K16			_	
	C1308,1401,1407	CEHAT101M25		CAPACITORS	<u>S</u>	0511474701440
	C1310,1313,1402 C1311	CKSYB105K25 ACH1451		C2001 C2002-2004		CEHAT470M16 CKSRYB104K16
·	C1312,1403	CKSRYB103K50		C2005,2006		CCSRCH331J50
				C2007		CCSRCH680J50
	C1314	CEHAT100M50 ACG1105				
	C1404 (330 pF/ 100 V)	ACGTTUS		[50Y RESONA	NCE BLCOK]	
				SEMICONDU	ICTORS	
	50X SUB DRIVE ASSY			IC2101,2104		TND307TD
	CEMICONDUCTORS			IC2102 IC2106		PS9117P PS2701A-1(L)
	SEMICONDUCTORS Q1501	FKP280AS		IC2107		AXF1163
	Q1502	FKP300AS		Q2101		2SC2412K
	Q1504,1505	H5N2512LS		00100 0100		0070
,	Q1507	QSZ2		Q2103,2106 Q2110,2111		QSZ2 2SC4081
	D1501	CRH01		D2101,2112		UDZS5R6(B)
	MISCELLANEOUS			D2107		CRH01
	K1501 TEST PIN	AKX1061		D2113		UDZS15(B)
	KN1501-1505 GROUND PLATE	ANK1841		MISCELLAN	FOUS	
	CN1501 CONNECTOR 14P 1502 SCREW	14R-FJ PMB30P080FNI		L2101		ATH1217
	1302 GOTTEVV	I IVIDOOI OOOI IVI		L2103		ATH1216
	<u>RESISTORS</u>			F2101	IE ATOINIZ DIZ	CTF1449
	R1502,1503	RS1/10S2R2J		2101 DRIVE F 2102 DRIVE F	RADIATION SHEET	ANH1653 AEH1092
	R1507,1508 Other Resistors	RS1/10S100J RS1/16S###J		2103 SCREW		BMZ30P080FTC
)	Other nesistors	N31/103###0				
	CAPACITORS			RESISTORS R2109		ACN1259
	C1501	ACE1178		R2112.2133		ACN1255 ACN1255
	C1503,1504 C1505	ACG1139 ACH1423		R2113,2114		RS1/10S4702F
	C1506	CKSYB105K25		R2118		ACN1241
				R2120		RS1/16S1002F
	[DRIVE HEATSINK M]			R2121		RS1/16S3302F
	[STIVE TIEATONIC III]			R2126 R2129		RS1/16S4701F ACN1258
	<b>MISCELLANEOUS</b>			Other Resistor	S	RS1/16S###J
	3001,3001 DRIVE HEATSINK M	ANH1656				
	3101,3101 SPACER RESISTORS	ANG2679		CAPACITORS	<u>S</u>	
	All Resistors	RS1/16S###J		C2101,2114 C2102,2115		CEHAT470M25 CKSRYF104Z50
	7 til i leolotoro	1101/100111110		C2102,2115 C2103		CKSRYB104K16
				C2104,2116		CKSYB105K25
	50 Y MAIN DRIVE ASSY			C2107		ACG1139
	[FOV.  0010 Pt 0017]			C2108-2111 C2113		ACE1178 ACH1450
	[50Y LOGIC BLOCK]			C2117		ACG1138
	SEMICONDUCTORS					
:	IC2001,2003 IC2002	TC74ACT541FT TC74ACT540FT		[50Y SUS BLC	CK]	
	D2001,2006,2007,2011	1SS355		-	-	
	D2003-2005	1SS301		SEMICONDU		TNDOCTTO
	D2012	1SS355		IC2201,2203,2	205,2208	TND307TD
3	30		PDP-507CM		_	
•	1 -	2		3		4

В

С

D

Е

	5	6	<b>-</b> 7	8
Mark No.	Description	Part No.	Mark No. Des	cription Part No.
IC2204,2209		PS9117P	C2211,2212,2225,2226	ACG1139
IC2210		TND307TD	C2218,2219,2224,2261	CKSYB105K25
IC2212		TND301S	C2221	CCSRCH221J50
IC2213		MM1565AF	C2223,2232	CKSRYF104Z50 A
Q2201		2SA2142	C2227,2231	CEHAT470M25
Q2202,2214		2SC4081	C2234,2240	CEHAT2R2M2E
Q2203		R5009ANJ	C2237,2241	ACH1423
Q2204,2206,	2207,2209	H5N2512LS	C2238,2239	ACE1178
Q2210,2216		FKP280AS	C2244	ACH1449
Q2211,2213,	-	H5N2512LS	C2246	ACH1426
Q2215,2221,	2222,2241	QSZ2	C2247,2252	CEHAT101M10
Q2220,2223 Q2236		FKP300AS 2SK3050	C2249 C2250	CKSRYB473K16 CEHAT470M16
Q2238		R6008ANJ	C2251	CKSRYB105K6R3
QLLOO		11000071110	02201	В
Q2261		DTC143EK	C2271,2276	CKSRYB104K25
Q2262		DTC123TKA		
D2201,2202,	2204,2209	CRH01		
D2203,2225 D2205,2206		1SS355 1SS302	[DRIVE HEATSINK M]	
D2203,2200		100002	MISCELLANEOUS	_
D2207		CRF03	3001,3001 DRIVE HEA	ATSINK M ANH1654
D2208,2212		UDZS5R6(B)	3001 DRIVE HEATSIN	
D2210,2213,	2216	CRH01	3101 SPACER	ANG2679
D2211		D1FL40		
D2219		1SS301		
D2220-2222,	2231,2301	CRH01	[50Y VH D-D CON BL	OCKI C
D2223,2224	·	UDZS16(B)	[301 VII B-B 0011 BE	OOKJ
D2241		UDZS8R2(B)	SEMICONDUCTOR	s
			IC2401	BA10358F
MISCELLAN			IC2402	MIP2E3DMU
L2201,2203,2	2204	BTH1134	IC2403	PS2701A-1(L)
L2202		ATK1060	IC2405,2412	TA76431FR
F2201-2214 F2221		ATX1062 CTF1449	Q2401	2SC3425
K2202-2204	TEST PIN	AKX1061	00400	200200
			Q2402 Q2403	2SD2568 2SC4081
KN2201-2204	4,2210-2217	ANK1841	Q2404	HN1C01FU
GROUND PL			D2402,2407	CRF03 D
	CONNECTOR	14PL-FJ	D2403	UDZS33(B)
CN2204 CO		B9B-EH		
2202 SCRE\	/V	PMB30P080FNI	D2404	1SS355
RESISTORS	3		D2406,2410	UDZS4R7(B)
R2201	<u>2</u>	RS3LMF821J	D2408,2409 D2411	CRH01 UDZS12(B)
R2202,2204		RS1/10S151J	D2411	ODZ312(B)
R2217,2219,	2222,2224	RS1/10S100J	MISCELLANEOUS	
R2225		ACN1254	L2401	BTH1136
R2226,2235,2	2243,2246	RS1/10S2R2J	T2401	ATK1158
R2228,2230,	2236.2238	RS1/10S100J	DECICTORS	
R2234,2255,	·	RS1/10S0R0J	RESISTORS	BS1/10S1041 E
R2260		ACN1257	R2401,2402 R2403,2404,2406	RS1/10S104J = RS1/10S2203F
R2264		ACN1258	R2407,2410	RS1/16S5601F
R2280		RS3LMF471J	R2412	RS1/16S1003F
D0004 0004		ACN1041	R2413	RS1/16S1802F
R2281-2284 R2341,2343		ACN1241 RS2LMF5R6J		
Other Resisto	ore	RS1/16S###J	R2414,2415	RS1/16S4702F
Other Hediate	515	1101/100111110	R2416	RS1/10S0R0J
<b>CAPACITOF</b>	<u>rs</u>		R2420,2421,2424 R2426	RS1/10S473J
C2201,2209,		CEHAT470M25	R2426 VR2401	RAB4C472J CCP1392
C2202,2208,	2210,2216	CKSRYF104Z50	VILTOI	301 1002
C2203		ACH1427	VR2402	CCP1390 _
C2204	(470 pF/ 000 \ /)	CCSRCH102J50	Other Resistors	RS1/16S###J F
02205,2256	(470 pF/ 630 V)	ACG1126		
C2207,2217,	2248,2253	CKSRYB104K16		
			PDP-507CMX	31
_	_		7 DI SOFOWA	_

PDP-507CMX 7 = 8

	1 -	2		3	-	4
	Mark No. Description	Part No.		Mark No.	Description	Part No.
	CAPACITORS					
	C2401	ACE1177		C2508		CEHAT221M25
	C2402	ACH1425		C2509,2510,25	518	CKSRYB103K50
Α	C2403,2404	CKSRYB104K25		C2511,2516 C2513		CKSRYB105K6R3 CKSYB105K25
	C2405,2407,2412	CKSRYB104K16		C2513 C2517		CKSRYF104Z50
	C2408	CEHAT101M16		02017		OKOKII 104200
	C2409	CEHAT470M25		C2519-2521,25	525	CKSRYB104K16
	C2410	CEHAT101M25				
	C2411	ACH1450		[50Y SCAN BL	OCK1	
	C2413 C2421	CEHAT221M16 ACH1451		[301 SCAN BL	OCK	
	02421	ACITI451		SEMICONDU	CTORS	
				IC2601-2603,2		TLP116
	[50Y D-D CON BLOCK]			IC2604-2606		PS9117P
В	05111001101107070			IC2610,2611		TC74AC540FT
	SEMICONDUCTORS	D00704 A 4 (L)		MISCELLANE	=OHE	
	IC2501,2502,2504 IC2503	PS2701A-1(L) BA10358F		L2601,2611	2003	BTH1134
	IC2506,2514	TA76431FR		CN2601 15P (	CONNECTOR	AKM1200
	Q2501,2506,2511	2SD1898				
_	Q2502,2507	2SA1576A		<b>RESISTORS</b>		
	O2503 2515	DTC143EUA		R2624		RAB4C220J
	Q2503,2515 Q2504,2509,2513	HN1C01FU		R2631 Other Resistors		RS1/10S0R0J RS1/16S###J
	Q2505	2SC2713		Other Resistors		по I/ I00###J
	Q2508	2SA2005		CAPACITORS	3	
	Q2510	2SA1163		C2601,2623	_	CEHAT101M10
С	Q2512,2514	2SC4081		C2602,2603,26	611-2617	CKSRYB104K16
	Q2512,2314 Q2520	2SC2412K		C2621,2622 C2631		ACH1450 CKSRYB104K16
	D2501,2503,2510,2516	CRH01		02031		CNSH1D104N10
	D2502,2512,2518	1SS301				
	D2504,2508	UDZS4R7(B)				
	D2505,2507,2513,2517	1SS355		50Y SUB D	RIVE ASSY	
	D2509	D1FL40				
	D2511	1SS302		SEMICONDU	<u>CTORS</u>	
	D2515,2521	UDZS5R1(B)		Q2701 Q2711		FKP280AS
	D2519,2520,2523	1SS355		Q2711 Q2721,2723,27	725 2726	FKP300AS H5N2512LS
D	D2522	UDZS5R6(B)		Q2731	20,2720	QSZ2
D	D2524	UDZS15(B)		D2701		CRH01
	MICOELLANEOUS			MICOELLANI	-0110	
	MISCELLANEOUS T2501	ATK1156		MISCELLANE F2701-2706	<u>=008</u>	ATX1062
	T2501	ATK1161		K2701 TEST F	PIN	AKX1062 AKX1061
	T2503	ATK1159		KN2701,2702,2		ANK1841
-				GROUND PLA		
	<u>RESISTORS</u>			CN2701 14P (		14R-FJ
	R2510,2514,2539,2543 R2513	RS1/16S4701F RAB4C472J		2702 SCREW		PMB30P080FNI
	R2523	RS1/16S4702F		<b>RESISTORS</b>		
_	R2524,2531	RS1/10S224J		R2702,2712		RS1/10S2R2J
Е	R2530,2532	RS1/16S1501F		R2722,2724,27	26,2727	RS1/10S100J
	D2522	DOOLME1E1 I		R2732		RS1/10S0R0J
	R2533 R2536	RS3LMF151J RS1/16S1002F		Other Resistors		RS1/16S###J
	R2544	RS1/16S4701F		CAPACITORS	3	
	R2550	RS1/16S5601F		C2701	_	ACE1178
	R2554	RS1/16S6801F		C2702		ACH1423
	VR2501	CCP1390		C2703		ACG1088
	Other Resistors	RS1/16S###J		C2711,2721		ACG1139
	2			C2731		CKSYB105K25
	<u>CAPACITORS</u>					
F	C2501,2502,2514	CEHAT101M25		[DRIVE HEATS	SINK M]	
	C2503,2515 (330 pF/ 100 V)	ACG1105			-0110	
	C2504 C2505,2506,2512	CKSRYB102K50 CKSRYB104K16		MISCELLANE		ANILIAGEO
	C2507	CEHAT221M6R3		3001,3001 DR	IVE HEATSINK M	ANH1656
	32		-507CN	ИX		
	1 =	2	_	3	_	4

3101.3101 SPACER	Part No. ANG2679	Mark No. Description	Part No.
		MISCELLANEOUS	
RESISTORS		X3302 CRYSTAL OSCILLATOR	ASS1188
All Resistors	RS1/16S###J	CN3301 CONNECTOR	CKS4835
		RESISTORS	
IN DIGITAL AGGS		R3307,3308	RAB4C101J
0 DIGITAL ASSY		Other Resistors	RS1/16SS###J
DIGITAL IF BLOCK]		<u>CAPACITORS</u> C3301-3303,3306,3308	CKSSYB104K10
<u> //ISCELLANEOUS</u>		C3304,3307,3309	CKSSYB472K16
F3001	CCG1162	C3305,3310	CKSSYB102K50
CN3001 50P CONNECTOR PBF	AKM1353	C3311	CCSRCH470J50
CN3002 20P FFC CONNECTOR	AKM1235	C3315,3316	CKSSYB104K10
RESISTORS		C3317	CCSRCH471J50
R3007,3010-3016	RAB4C470J		
R3020-3022	RAB4C103J	ISO ASIC BLOOK!	
Other Resistors	RS1/16SS###J	[SQ ASIC BLOCK]	
		SEMICONDUCTORS IC3401	DEC220A
MODULE UCOM BLOCK]			PEG239A
EMICONDUCTORS	100/0/:	MISCELLANEOUS L3401-3403	QTL1013
IC3151	AGC1011	F3401,3402	CCG1162
IC3152,3153	SN74AHC541PW	1 3401,3402	0001102
IC3155	SN74AHC08PW	RESISTORS	
IC3156	BR24L04FJ-W		DAD40404 I
IC3157	M62334FP	R3402,3412 R3405-3407,3409,3410	RAB4C101J RAB4C220J
IC3159	TC7W126FU	R3405-3407,3409,3410 R3416	RAB4C220J RAB4C220J
IC3169,3161	TC7W126FU TC74VHC123AFTS1	R3425	RS1/16SS5601F
Q3151	2SJ461A	Other Resistors	RS1/16SS###J
D3151,3152,3154,3155	25J461A DAN202U	Carlot Hodiotoro	1.0.1, 1.0001111110
D3158,3159,3161-3163	1SS355	CAPACITORS	
,,		C3401,3402,3419,3425	CEHVKW101M6R3
IISCELLANEOUS		C3403-3413,3417,3418	CKSSYB104K10
X3151 CERAMIC OSCILLATOR	CSS1616	C3420-3424,3426-3432	CKSSYB104K10
CN3151 CONNECTOR 5P	AKM1276	C3445-3448	CKSSYB104K10
CN3152 CONNECTOR	CKS4828		
RESISTORS		[ADDRESS CN BLOCK]	
R3155,3160,3170,3176	RAB4C101J		
R3174	RAB4C103J	<u>SEMICONDUCTORS</u>	
Other Resistors	RS1/16SS###J	Q3501,3502	RN1901
APACITORS		D3501,3502	DAN202U
C3151	CEHVKW470M6R3	MISCELLANEOUS	
C3151 C3152,3153,3155-3158	CKSSYB104K10	CN3501-3504,3506	AKM1348
C3159,3171,3172,3182	CKSRYB105K6R3	40P CONNECTER	7 11 11 11 10 TO
C3162,3163,3165,3166	CKSSYB104K10	CN3505 18P CONNECTOR	VKN1310
	CCSSCH101J50		
C3164	CKSSYB103K16	RESISTORS	BIBIC:==:
		D0E40 0E00	RAB4C472J
C3167		R3519,3520	
C3167 C3168,3170,3181	CKSSYB104K10	R3521,3522,3525	RAB4C101J
C3167		*	
C3167 C3168,3170,3181 C3183	CKSSYB104K10	R3521,3522,3525 R3524	RAB4C101J RAB4C222J
C3167 C3168,3170,3181 C3183 PANEL FLASH BLOCK]	CKSSYB104K10	R3521,3522,3525 R3524	RAB4C101J RAB4C222J
C3167 C3168,3170,3181 C3183	CKSSYB104K10	R3521,3522,3525 R3524 Other Resistors	RAB4C101J RAB4C222J
C3167 C3168,3170,3181 C3183 PANEL FLASH BLOCK]  SEMICONDUCTORS IC3301	CKSSYB104K10 CCSSCH470J50 AGC1009	R3521,3522,3525 R3524 Other Resistors  [DIGITAL DD CON BLOCK]  SEMICONDUCTORS	RAB4C101J RAB4C222J RS1/16SS###J
C3167 C3168,3170,3181 C3183 PANEL FLASH BLOCK]	CKSSYB104K10 CCSSCH470J50	R3521,3522,3525 R3524 Other Resistors	RAB4C101J RAB4C222J
C3167 C3168,3170,3181 C3183 PANEL FLASH BLOCK] EMICONDUCTORS IC3301 IC3302,3305	CKSSYB104K10 CCSSCH470J50 AGC1009 PST3628UR	R3521,3522,3525 R3524 Other Resistors  [DIGITAL DD CON BLOCK]  SEMICONDUCTORS IC3601	RAB4C101J RAB4C222J RS1/16SS###J
C3167 C3168,3170,3181 C3183 PANEL FLASH BLOCK]  EMICONDUCTORS  IC3301 IC3302,3305 IC3303	CKSSYB104K10 CCSSCH470J50 AGC1009 PST3628UR SN74AHC08PW	R3521,3522,3525 R3524 Other Resistors  [DIGITAL DD CON BLOCK]  SEMICONDUCTORS	RAB4C101J RAB4C222J RS1/16SS###J
C3167 C3168,3170,3181 C3183 PANEL FLASH BLOCK]  EMICONDUCTORS  IC3301 IC3302,3305 IC3303 IC3304	CKSSYB104K10 CCSSCH470J50 AGC1009 PST3628UR SN74AHC08PW PST3610UR	R3521,3522,3525 R3524 Other Resistors  [DIGITAL DD CON BLOCK]  SEMICONDUCTORS IC3601  MISCELLANEOUS	RAB4C101J RAB4C222J RS1/16SS###J
C3167 C3168,3170,3181 C3183 PANEL FLASH BLOCK] EEMICONDUCTORS IC3301 IC3302,3305 IC3303 IC3304 Q3301	CKSSYB104K10 CCSSCH470J50 AGC1009 PST3628UR SN74AHC08PW PST3610UR RN1901 HN1C01FU	R3521,3522,3525 R3524 Other Resistors  [DIGITAL DD CON BLOCK]  SEMICONDUCTORS IC3601  MISCELLANEOUS	RAB4C101J RAB4C222J RS1/16SS###J

	1 -	2	3 ■	4
	Mark No. Description	Part No.	Mark No. Description	Part No.
	RESISTORS		R9688	RS1/10SR2002F
	R3611	RAB4C101J	R9692,9693	RAB4CQ103J
	Other Resistors	RS1/16SS###J	Other Resistors	RS1/10SR###J
Α				
	<u>CAPACITORS</u>		CAPACITORS	
	C3609	CKSSYB104K10	C9501,9503,9504,9511	CKSRYB104K25
	C3611	CKSQYB105K16	C9502 C9505	CEHVKW470M16 CKSRYB334K10
	C3612	ACH1394 CKSSYB103K16	C9505 C9508	ACG1134
	C3613	CK351B103K16	C9509	CKSRYB103K50
	SENSOR ASSY		C9510,9525,9547	CCSRCH102J50
			C9512	CKSQYB105K16
	SEMICONDUCTORS		C9514	CKSRYB104K50
	IC3651	MM1522XU	C9517 C9518,9522,9528-9530	ACH1431 CKSRYB104K25
В	IC3652	BR24L02FJ-W	03510,3522,3520-3550	OKS111B104K25
	Q3651	HN1B04FU	C9520,9521	CCSRCH470J50
			C9523	CCSRCH391J50
	MISCELLANEOUS		C9524	CKSRYB223K50
	CN3651 CONNECTOR 5P	AKM1276	C9531,9532	CCSRCH100D50
	CN3601 PLUG (14P)	KM200NA14	C9533-9536,9541-9546	CKSRYB104K25
	RESISTORS		C9537	CCSRCH561J50
	<u> </u>	DC1/1000### I	C9537 C9538	CEHVKW470M6R3
	All Resistors	RS1/16SS###J	C9540	CCSRCH181J50
	CAPACITORS			
	C3651,3653	CKSRYB105K6R3		
С	C3652,3654	CKSSYB103K16	[INTERFACE BLOCK]	
C	C3656,3657	CKSSYB104K10		
			<u>SEMICONDUCTORS</u>	
			IC5001	SN74LV14APW
	MAIN ASSY		IC5002 IC5003	SN74LVC14APW BR24C21FJ
			IC5003	BA7657F
	[CPU BLOCK]		IC5005	TC74LCX157FTS1
	05141001101107000			
	SEMICONDUCTORS	MOOZOOFIANOR	<b>⚠</b> IC5006	NJM2846DL3-05
	IC9501 MICOM !\IC9502	M30700FKNGP PQ1U501M2ZPH	IC5007	EL5362IUZ-T7
	∴ IC9503	NJM2846DL3-33	IC5008	SN74LVC2G126DCTR
_	IC9504	SN74LVC08APW	Q5001-5003,5016,5017	BA05FP 2SC4081
D	IC9505	BD4727G	Q0001 0000,0010,0017	2004001
			Q5018	DTC144EUA
	IC9506	MC74VHCT132ADT	D5001-5007,5018,5019	UDZS5R6(B)
	IC9507 IC9508	RTC-4543SA-B-7 24LC128(I)SN	D5010,5017,5020,5024	1SS301
	IC9509	TC74VHCT08AFTS1	D5011-5013,5021-5023	1SS302
	Q9503	2SA1576A	MISCELLANEOUS	
			L5001,5002,5004,5005	BTH1102
	D9501,9502,9504,9506	1SS301	L5003	BTH1104
	D9507	RB751S-40	F5001,5002,5025	DTL1041
	D9508 D9514	MZ2J73200L RD3R3S(B1)	F5003-5007,5010-5012	OTL1046
_	50014	. 1001100(01)	F5014-5018,5031-5035	OTL1046
Е	MISCELLANEOUS		CN5001 20P CONNECTOR	AKM1343
	F9501-9503	DTL1034	CN5002,5003 15P D-SUB SOCKET	AKP1214
	⚠ X9501 CRYSTAL RESONATOR	ASS1201	0140002,0000 101 B 00B 0001121	7111 1214
	CN9501 CONNECTOR 4P	AKM1275	<u>RESISTORS</u>	
	CN9503 SOCKET	AKP1286	R5004-5006	RS1/10SR75R0F
	⚠ BT9501 LITHIUM BATTERY	AEX1030	R5058,5059,5062,5063	RS1/10SR1501F
	RESISTORS		R5061,5065,5071	RS1/10SR7500F
	R9563,9585,9637,9638	RS1/10SR3602F	R5067,5068	RS1/10SR1501F
	R9630,9687	RS1/8SQ470J	R5072,5073,5077,5078	RS1/8SQ111J
	R9636	RS1/10SR2202F	R5074-5076	RS1/10SR68R0F
_	R9640-9642,9644	RS1/10SR3602F	R5082,5083	RS1/8SQ0R0J
F	R9665	RS1/10SR1501F	Other Resistors	RS1/10SR###J
	Docos	DC1/0C0000 I		
	R9685 R9686	RS1/8SQ220J RS1/8SQ0R0J	<u>CAPACITORS</u>	01/00\/D0071//-
			C5001,5002,5041,5051	CKSQYB225K16
	34	PDP-507		
	1 -	2	3	4

	6	7	8	
lark No. Description	Part No.	Mark No. Description	Part No.	
C5003,5004,5035,5036 C5005,5014-5019	CKSRYB104K25 CKSRYB103K50	[RGB H/V SELECT A BLOCK]		
C5007-5009,5034,5059	CEHVKW470M16			
C5010-5012	ACH1444	<u>SEMICONDUCTORS</u>	D 4 70575	,
C5013	CKSRYB105K10	IC5601	BA7657F	
C5020	CEHVKW100M16	IC5602 IC5603	SM5301CS TC74VHC153FT	
C5021-5026	CCSRCH4R0C50	IC5604	TC74LCX157FTS1	
C5033	CCSRCH471J50	IC5605	BA7078BF	
C5037,5065	ACH1430			ı
C5042,5043,5052,5057	CKSRYB104K25	IC5606	SN74LVC2G126DCTR	•
C5044,5046,5048	ACG1142	Q5601,5603,5604	2SC4081 2SA1576A	
C5050,5053,5058	CCSRCH5R0C50	Q5602,5606 Q5607	DTC144EUA	
C5054	CKSRYB334K10	Q0007	DIOITTEON	
C5056	ACG1134	MISCELLANEOUS		
OF000 F000 F004	ACH1431	L5601,5604,5605	BTH1104	
C5060,5062-5064 C5061	CKSQYB334K50	L5602,5603,5606,5607	BTH1102	
00001	01001200-1100			
		RESISTORS		
NTERFACE-B BLOCK]		R5672	RS1/10SR2700F	
_		R5673 Other Resistors	RS1/10SR3000F RS1/10SR###J	
EMICONDUCTORS		Other Fesisions	1101/1000 <del>1/11/1</del> 0	•
IC5301	BU2152FS	CAPACITORS		
∑IC5303 IC5304	NJM78M09DL1A MAX7313AEG	C5616-5618,5636,5638	CKSQYB105K16	
IC5304 IC5305	SN74LVC2G126DCTR	C5619-5623,5626-5628	CKSRYB104K25	
IC5306	NJM4580V	C5624,5631,5649-5651	CEHVKW470M16	
		C5625,5629	CKSQYB225K16	(
IC5307	TC74VHC541FTS1	C5630,5632,5634,5644	CKSRYB104K25	
IC5308	NJM2750M	C5635,5637,5642	CKSRYF474Z25	
Q5371,5372	2SC4081	C5640	CKSRYB392K50	
Q5373 D5307	2SA1576A 1SS301	C5643,5676	ACG1134	
D3307	133301	C5645	CCSRCH101J50	
D5375	RB160M-40	C5646-5648 (47 uF /6.3 V)	ACH1444	•
D5376	1SS302	05050 5057 5004	OVODVD400VF0	
		C5652-5657,5681 C5658-5663	CKSRYB103K50 CCSRCH4R0C50	
<u> IISCELLANEOUS</u>		C5670	CCSRCH471J50	
L5371	BTH1102	C5671,5679,5680	CKSRYB104K25	
F5301-5303,5371,5372 F5311,5312	DTL1041 DTL1034	C5672	ACH1430	
JA5371-5373 JACK	AKN1075			
CN5301 50P CONNECTOR PBF	AKM1353	C5677	CCSRCH561J50	
		C5678	CEHVKW470M16	
RESISTORS				
R5303	RAB4CQ101J	[RGB H/V SELECT B BLOCK]		
R5376,5377	RS1/10SR8200F	-		
R5394-5397 Other Resistors	RS1/10SR2202F RS1/10SR###J	<u>SEMICONDUCTORS</u>		
Other resistors	1131/10311###3	IC5901	BA7657F	
CAPACITORS		IC5902	TC74VHC153FT	
C5301-5304,5360,5361	CKSRYB104K25	IC5903 IC5904	BA7078BF TC74LCX157FTS1	
C5305	CKSRYB104K50	IC5905	SM5301CS	E
C5359,5400	ACH1430		S557.55	
C5362	CEHVKW330M25	Q5901,5903	2SA1576A	
C5363,5391,5401	CKSRYB104K25	Q5902,5904,5905	2SC4081	
	CCSRCH102J50	D5901-5903	1SS302	
C5371-5374	CKSRYB222K50	MISCELLANEOUS		Ī
C5371-5374 C5375,5376		•	BTH1102	
	CCSRCH221J50			
C5375,5376 C5377-5380 C5381-5384,5398,5399	CKSQYB105K16	L5901-5903 L5904,5905,5907	BTH1102	
C5375,5376 C5377-5380		L5901-5903 L5904,5905,5907		
C5375,5376 C5377-5380 C5381-5384,5398,5399 C5385-5388	CKSQYB105K16 CCSRCH101J50			
C5375,5376 C5377-5380 C5381-5384,5398,5399	CKSQYB105K16	L5904,5905,5907  RESISTORS  R5930	BTH1104 RS1/10SR2700F	
C5375,5376 C5377-5380 C5381-5384,5398,5399 C5385-5388 C5389,5390,5402,5403	CKSQYB105K16 CCSRCH101J50 CKSQYB225K16	L5904,5905,5907 <b>RESISTORS</b>	BTH1104	ſ

	1 =	2	<b>3</b>	4
	Mark No. Description	Part No.	Mark No. Descri	iption Part No.
	CAPACITORS	<u> </u>	CAPACITORS	<u> </u>
	C5901-5903 (47 uF /6.3 V)	ACH1444	C6501,6503	CEHVKW221M10
	C5904-5906,5910-5912	CKSRYB103K50	C6502,6506,6508,6510	CKSRYB104K25
Α	C5907-5909,5939,5941	CEHVKW470M16	C6504	CKSQYB225K16
	C5913-5918	CCSRCH4R0C50	C6505,6507,6509,6517	CKSQYB105K16
	C5925,5942	CKSQYB225K16	C6511 (100 uF/ 16 V)	ACH1430
	C5926,5928,5929,5940	CKSRYB104K25	C6512-6514,6520,6522	CKSRYB104K25
	C5927	CCSRCH471J50	C6515	CKSRYB224K16
	C5930 (100 uF/ 16 V)	ACH1430	C6516	CCSRCH681J50
	C5934,5945	ACG1134	C6518,6523,6524,6529	CKSQYB105K16
	C5935-5937,5956,5958	CKSQYB105K16	C6519,6521	CCSRCH331J50
	C5938	CCSRCH561J50	C6525,6526,6528,6531	CKSRYB104K25
	C5946-5949,5954,5962	CKSRYB104K25	C6527,6532,6537	CKSRYB472K50
	C5952	CKSRYB392K50	C6530,6534,6535	CKSQYB105K16
В	C5955,5957,5960	CKSRYF474Z25	C6533,6536,6538-6550	CKSRYB104K25
	C5961	CCSRCH101J50	C6552,6553	CKSRYB104K25
	05004 5000 5000	OKODVD4 0 4KOE		
	C5964,5966-5968 C5970	CKSRYB104K25 CEHVKW470M16	[A/D B BLOCK]	
	C3970	CERVINV470W10	[A/D B BLOCK]	
			SEMICONDUCTORS	
_	[VIDEO SLOT OE BLOCK]		IC6701	TDA8754HL/14/C1
			<b>⚠</b> IC6702	NJM2846DL3-33
	<u>SEMICONDUCTORS</u>		IC6703	SN74LVC1G125DCK
	IC6301	PD6435A	Q6701-6703	2SA1576A
	IC6302,6304	IDT2305A	D6701	1SS301
С	MISCELLANEOUS		MISCELLANEOUS	
	F6301,6302,6304	BTX1041	L6701	ATH1127
	⚠X6301 CERAMIC RESONATOR	ASS1169	L6702	ATL1148
	CN6301,6302 50P CONNECTOR PE	BF AKM1353	F6701-6705	BTX1041
	♠ FU6301 PROTECTOR(4.5A)	AEK1082		
			<u>RESISTORS</u>	
_	RESISTORS		R6701-6703	RS1/8SQ0R0J
	R6301-6312	RAB4CQ103J	R6710,6713,6716	RS1/10SR4300F
	R6313-6324 R6334-6345	RAB4CQ220J RAB4CQ470J	R6712,6715,6718 Other Resistors	RS1/10SR18R0F RS1/10SR###J
	R6356.6364	RAB4CQ102J	Other resistors	1131/10311###0
	Other Resistors	RS1/10SR###J	<b>CAPACITORS</b>	
D			C6701,6706,6708,6710	CKSRYB104K25
	<u>CAPACITORS</u>		C6702,6703	CEHVKW221M10
	C6301-6313,6315,6316	CKSRYB104K25	C6704	CKSQYB225K16
	C6320	CEHVKW470M6R3	C6705,6707,6709,6717	CKSQYB105K16
	C6321-6337	CKSRYB103K50	C6711 (100 uF/ 16 V)	ACH1430
	C6338,6340,6343	CKSRYB104K25	C6712-6714,6720,6722	CKSRYB104K25
-			C6715	CKSRYB224K16
	[A/D A BLOCK]		C6716	CCSRCH681J50
			C6718,6723,6724,6729	CKSQYB105K16
	<u>SEMICONDUCTORS</u>		C6719,6721	CCSRCH331J50
	IC6501	TDA8754HL/14/C1	C6725,6726,6728,6731	CKSRYB104K25
Е	⚠ IC6502 IC6503	NJM2846DL3-33	C6727,6732,6737	CKSRYB472K50
	Q6501-6503	SN74LVC1G125DCK 2SA1576A	C6730,6734,6735	CKSQYB105K16
	D6501	1SS301	C6733,6736,6738-6750	CKSRYB104K25
	2000.		C6752,6753	CKSRYB104K25
	<b>MISCELLANEOUS</b>			
	L6501	ATH1127	[DVI RECEIVER BLOCK	1
-	L6502	ATL1148	[DVI NECEIVEN BLOCK	1
	F6501-6505	BTX1041	SEMICONDUCTORS	
	DESISTORS		IC7001	SII1169CTU-P
	RESISTORS R6501-6503	RS1/8SQ0R0J	IC7002,7005	BR24L02FJ-W
	R6510,6513,6516	RS1/8SQ0H0J RS1/10SR4300F	<b>⚠</b> IC7003,7006	PQ20WZ11
F	R6512,6515,6518	RS1/10SR18R0F	IC7004	SN74AHC2G66HDCT
	Other Resistors	RS1/10SR###J	Q7001,7002,7004	DTC144EUA
			Q7003	SM6K2
			G. 000	ONIONE
3	36	PDP-5	07CMX	

PDP-507CMX

5	6	7	8	I
lark No. Description	Part No.	Mark No. Description	Part No.	
Q7005	2SC2412K	C8042,8043,8045,8046	CKSRYF104Z50	
D7001,7010-7012	1SS302	C8047,8049	CKSRYB103K50	
D7002-7009	MA147	C8048,8050,8051,8055	CKSRYF104Z50	
		00057	01/05//5101750	1
<u>IISCELLANEOUS</u>		C8057	CKSRYF104Z50	
F7002,7003,7005-7010	DTL1041			
F7004	BTX1041			
CN7001 DVI CONNECTOR	AKP1282	[SDRAM OSD BLOCK]		
ESISTORS		[02:11:11:11:002.22001.]		
R7008	RS1/10SR1801F	SEMICONDUCTORS		
R7011,7025	RS1/10SR2001F	IC8101-8104	K4S643232H-TC60	
R7012	RS1/10SR3900F	IC8105	PD6545A	
R7024	RS1/10SR5100F			
R7039,7054	RS1/8SQ0R0J	MISCELLANEOUS		
		F8101-8105	DTL1041	
R7042-7053	RAB4CQ470J			
Other Resistors	RS1/10SR###J	RESISTORS		
		R8108	RAB4CQ103J	
<u>APACITORS</u>		All Resistors	RS1/10SR###J	
C7001,7031	CKSQYB334K50			
C7002,7004-7006	CEHVKW101M6R3	CAPACITORS		
C7003,7007,7008,7010	CKSRYB104K25	C8101-8105.8107-8116	CKSRYF104Z50	J
C7009,7011,7013,7015	CCSRCH101J50	C8106,8117,8129,8140	CKSQYB225K16	-
C7012,7014,7017	CKSRYB104K25	C8118-8128,8130-8139	CKSRYF104Z50	
		C8141-8151	CKSRYF104Z50	
C7016	CCSRCH331J50	00171 0101	51.01111 107200	
C7018,7020	CEHVKW220M16			
C7019	CKSRYB103K50	[LVDS TRANSMITTER BLOCK]		(
C7021-7028,7033	CKSRYB104K25	[EVEC HAROMITIER DECOK]		,
C7032	ACH1430	<u>SEMICONDUCTORS</u>		
		IC8501	THC63LVD103F	
		IC8501 IC8503	TC74LCX157FTS1	
ASTEL BLOCK]		Q8503,8504	2SC4081	
		Q0000,000+	200-001	ı
EMICONDUCTORS		MISCELLANEOUS		
IC8001	PE5525A	F8501	BTX1041	
IC8002	SI-3011ZD	F8503	DTL1041	
IC8003	PQ1MX55M2SPQ	CN8501 CONNECTOR	AKM1340	
D8001,8002	1SS301	CN8502 20P CONNECTOR	AKM1343	
SCELLANEOUS				ſ
	DTU1104	<u>RESISTORS</u>		
L8001-8004	BTH1104	All Resistors	RS1/10SR###J	
F8001-8003	BTX1041			
F8004,8005	DTL1041	CAPACITORS		
X8001 CRYSTAL RESONATOR(90 MI		C8501	ACH1430	
X8002 CRYSTAL RESONATOR(143 N	/IU7)4991188	C8502-8504,8508,8510	CKSRYB104K25	
ELIONO 1 0002 PROTECTOR (C.C. A)	A E 1/ 1 0 0 4	C8505	CKSRYB105K10	
FU8001,8003 PROTECTOR (6.3 A) FU8002 PROTECTOR (1 A)	AEK1084 AEK1073	C8506,8507	CKSRYB103K50	
1 00002 FROTEOTOR (TA)	ALKIU/3	<b>,</b>	- 31.122	
ESISTORS				
R8003	RS1/10SR3901F	[FAN CONTROL ETC. BLOCK]		
R8004	RS1/10SR1002F			-
R8006-8008,8033	RS1/8SQ1R0J	<b>SEMICONDUCTORS</b>		1
R8043	RS1/10SR3001F	<u> </u>	PQ20WZ11	
R8044	RS1/10SR1302F	IC9002	PQ200WNA1ZPH	
1.00-1-1	1101/1001110021	Q9001,9002,9007	2SC4081	
R8045-8051	RAB4CQ101J	Q9003,9004	2SA1576A	
Other Resistors	RS1/10SR###J	Q9008	DTC144EUA	
		<b>Dane</b> ( 5	10000	l
APACITORS		D9001,9003,9005	1SS301	
C8001	CEHVKW470M16	D9006	1SS302	
C8002,8004,8008-8021	CKSRYF104Z50	MICOELLANEOUS		
C8003,8022	CEHVKW101M6R3	MISCELLANEOUS	DT1//0::	
C8006	CKSQYB225K16	F9002,9003,9010,9011	BTX1041	
C8007 (100 uF/ 16 V)	ACH1430	KN9001-9004 GROUND PLATE	VNF1109	
•		CN9001 CONNECTOR 9P	AKM1280	
C8023-8037,8039,8040	CKSRYF104Z50	CN9003,9004,9011 CONNECTOR 3P		
C8038,8041,8044,8056	CEHVKW470M6R3	CN9006,9012 CONNECTOR 7P	AKM1278	
				37
		DP-507CMX		3/
5	6	7	8	I

	1 -	2	■ 3	4
	Mark No. Description	Part No.	Mark No. Description	Part No.
			Other Resistors	RS1/10SR###J
	CN9007 CONNECTOR 6P	AKM1277	0.17.017070	
	CN9008 CONNECTOR 8P CN9010 40P TOP CONNECTOR	AKM1279	CAPACITORS	
Α	⚠ FU9001,9003 PROTECTOR (4.5 A)	AKM1342 AEK1082	C4001	ACG1134
	⚠ FU9002 PROTECTOR (6.3 A)	AEK1082 AEK1084	C4002-4007,4020,4022	CKSRYB104K25
	ET 03002 THOTEOTOR (0.5 A)	ALITIOO	C4023 C4024	CCSRCH181J50 CCSRCH151J50
	RESISTORS		C4025	CCSRCH101J50
	R9018.9109	RS1/10SR2001F	04020	00011011101000
	R9019	RS1/10SR5601F	C4026,4027	CCSRCH271J50
-	R9020	RS1/10SR1502F	C4028	CKSRYB103K50
	R9021	RS1/10SR6801F	C4029	CEHVKW330M25
	R9027,9028	RS1/8SQ221J	C4030,4035	CKSRYB104K25
	D0000 0040 0054	DC4/0CO0D0 I	C4033,4034	CKSQYB474K25
	R9032,9043-9054 R9033	RS1/8SQ0R0J RS1/8SQ470J		
В	R9037.9038	RS1/8SQ102J		
	R9069-9080,9082-9084	RS1/8SQ0R0J	SENB ASSY	
	R9090-9101	RS1/8SQ0R0J	SEND ASST	
			SEMICONDUCTORS	
	R9107	RS1/10SR3301F	<u>↑IC1001</u>	LM75BIMX-3
_	R9108 Other Resistors	RS1/10SR2702F RS1/10SR###J	<u></u>	55 0
	Other nesistors	no i/ iuon###J	<b>MISCELLANEOUS</b>	
	CAPACITORS		F1001,1003	OTL1046
	C9001	CKSRYF104Z50	CN1001 CONNECTOR 8P	AKM1279
	C9002	CEHVKW470M16		
	C9003	ACH1431	RESISTORS	DO / 10000 DO 1
С	C9007	CKSRYB103K50	R1003 Other Resistors	RS1/8SQ0R0J RS1/10SR###J
	C9008	CKSQYB105K16	Other nesistors	N31/103N###J
	C9009	CEHVKW330M25	CAPACITORS	
	C9010	CKSRYB104K25	C1002	CKSRYB104K25
			C1003	CCSRCH151J50
			C1005	CCSRCH181J50
•	VSIF ASSY			
	OF MOON DUCTORS		SENC ASSY	
	<u>SEMICONDUCTORS</u>	041 004 D	OLINO AGOT	
	IC4001 <u>↑</u> IC4002	24LC01B LM75BIMX-3	SEMICONDUCTORS	
D	IC4002	PQ200WNA1ZPH	<u>SEMICONDOCTORS</u> <b>∴</b> IC1101	LM75BIMX-3
	Q4001-4003	HN1A01FU		LIVI7 ODIIVIX O
	Q4004	2SC4081	MISCELLANEOUS	
			F1101-1103	OTL1046
	Q4005	DTC144EUA	CN1101 CONNECTOR 4P	AKM1275
	D4020,4021	UDZS5R6(B)		
	D4022	1SS302	<u>RESISTORS</u>	
	MISCELLANEOUS		All Resistors	RS1/10SR###J
	F4001	OTL1046	CADACITODO	
	KN4001,4002 GROUND PLATE	VNF1109	<u>CAPACITORS</u>	OKOD/D404105
	CN4001 CONNECTOR 13P	AKM1299	C1102 C1103	CKSRYB104K25 CCSRCH391J50
Е	CN4002-4004 50P CONNECTOR PBF	AKM1353	C1105	CCSRCH271J50
_	CN4005 20P CONNECTOR	AKM1343	01100	00011011271000
	CN4006 PCI SOKET184	AKP1251		
	CN4000 FCI 30KL1104	ARF 1231	0711D 4001/	
	RESISTORS		SEND ASSY	
	R4002	RS1/10SR2201F	OFMICONDUCTORS	
	R4004	RS1/10SR1001F	<u>SEMICONDUCTORS</u>	I MATERIA NA G
	R4005,4010,4015	RS1/10SR1002F	<b>△</b> IC1201	LM75BIMX-3
	R4007,4012,4017	RS1/10SR1502F	MISCELLANEOUS	
	R4008,4013,4018	RS1/10SR1202F	F1201,1203	OTL1046
	R4009,4014	RS1/10SR3302F	CN1201 CONNECTOR 8P	AKM1279
F	R4022,4024	RS1/10SR4701F		·=· •
	R4040,4041,4047-4050	RS1/8SQ0R0J	<u>RESISTORS</u>	
	R4045	RS1/10SR8201F	R1203	RS1/8SQ0R0J
	R4046	RS1/10SR2001F	Other Resistors	RS1/10SR###J
3	88	PDP-50	D7CMX	
	-	2	77 51070	_

<b>■</b> 5 <b>■</b>	6	7	8	
Mark No. Description	Part No.	Mark No. Description	Part No.	
		C3078	ACH1463	
CAPACITORS C1202	CKSRYB104K25	C3082 C3083,3084	CKSRYB103K50 CKSRYB104K50	
C1203	CCSRCH391J50	,		Α
C1205	CCSRCH181J50	COMMSLOT ASSY		
AUDIO ASSY		SEMICONDUCTORS		
CEMICONDUCTORS		IC2001,2002 IC2003	MC74VHCT132ADT MAX3222IPER	
SEMICONDUCTORS IC3001	R2S15900	IC2003 IC2004,2005	TC74VHC00FT	-
<b>⚠</b> IC3002	M61571AFP	IC2006,2007	TC74VHC125FT	
⚠ IC3004 Q3003,3005,3006,3008	NJM78M09DL1A 2SA1576A	D2001-2010,2022,2023	UDZS16(B)	
Q3004,3009	2SC4081	D2011-2014	DAN217U	
Q3007	DTC143ZUA	D2021	UDZS3R6(B)	В
D3001	DAN217U	<b>MISCELLANEOUS</b>		
⚠ D3003-3006	RB160M-40	JA2002,2003 6PIN MINI-DIN JACK	AKP1254	
D3007	RD10S(B3)	CN2001 9P D-SUB SOCKET 2001	AKP1213 VNE1949	
<b>MISCELLANEOUS</b>				_
L3001-3004	ATH1189	RESISTORS	DO4/0000D01	
L3005,3006 F3001-3003	BTH1102 OTL1046	R2019,2020 Other Resistors	RS1/8SQ0R0J RS1/10SR###J	
F3006-3009	BTX1041			
KN3001-3003 EARTH METAL FITTING	VNF1109	CAPACITORS C2001-2007	0000011101150	
<b>⚠ CN3001 SPEAKER TERMINAL 4-P</b>	AKE1062	C2001-2007 C2008,2011-2013,2016	CCSRCH101J50 CKSRYB104K50	С
CN3003 CONNECTOR 6P	AKM1277	C2009,2010	CKSRYB104K25	
CN3004 CONNECTOR 9P	AKM1280	C2014,2015,2019-2021 C2017,2022-2024	CCSRCH471J50 CKSRYB104K50	
<u>RESISTORS</u>				
R3005,3006 R3014,3019	RS1/8SQ221J RS1/10SR3902F	C2018	CEHVKW470M16	_
R3015,3018	RS1/10SR3902F RS1/10SR1502F			
R3023	ACN1243			
R3025-3027,3047-3049	RS1/8SQ0R0J	COMMSLOT IF ASSY		
R3035-3038	RS1/16S563J	<b>SEMICONDUCTORS</b>		
R3054,3056,3059,3060 R3061-3066	RS1/8SQ103J RS1/8SQ0R0J	IC2301	TC74VHC00FT	D
Other Resistors	RS1/10SR###J	Q2301,2351 Q2302	2SC4081 DTC144EUA	
CADACITORS		Q2350	HN1A01FU	
CAPACITORS C3001.3057	ACH1430			
C3002,3015,3030,3031	CKSQYB105K16	MISCELLANEOUS  CN2302 40P SIDE CONNECTOR	AKM1347	_
C3008	CKSRYB153K50 CCSRCH561J50	CN2302 40P SIDE CONNECTOR CN2303 EDGE CARD CONN 46P	AKP1252	
C3016,3019,3026,3029 C3017,3018,3027,3028	CCSRCH560J50	CN2301 L PLUG (8P)	KM200NA8L	
C3020,3025	CCSRCH680J50	RESISTORS		
C3020,3025 C3021	CKSRYB224K16	R2313	RS1/8SQ0R0J	
C3022	CEHVKW100M16	R2350	RS1/10SR1502F	E
C3023 C3024,3032,3034,3038	CEHVKW470M16 CKSRYB104K25	R2351,2353 R2354	RS1/10SR1202F RS1/10SR1002F	
00024,0002,0004,0000	OKOKI BIOTKES	R2355	RS1/10SR2201F	
C3033,3039,3054 C3036,3037,3042	ACH1464 CKSQYB105K16	Other Resistors	RS1/10SR###J	
C3040,3055,3056,3063	CKSRYB104K25	Carlot Floodoto	1101/100111111110	
C3043,3044,3048,3049	CFTLA474J50	<u>CAPACITORS</u>	01/07//04041/50	
C3045,3046,3051,3052	ACG1130	C2301 C2350,2351	CKSRYB104K50 CKSRYB104K25	
<b>⚠</b> C3066-3069	CFTLA104J50			
C3070 C3071	CCSRCH102J50 CKSRYB104K25			
C3072	CEHVKW220M16	KEY ASSY		F
C3074,3075	ACG1132			·
C3076,3077	ACG1133	SEMICONDUCTORS		
		IC2201	PD5719A	39
	6	PDP-507CMX		აყ _
5 -	6	_ , _	8	

1 -	2	<b>3</b>		4
Mark No. Description	Part No.	Mark No.	Description	Part No.
Q2201	2SC4081		•	
D2201	1SS355	R172		RS1/8SQ0R0J
		Other Resistors	;	RS1/16SS###J
MISCELLANEOUS	1/00/000	CAPACITORS	<u>i</u>	1011/100
\$2201-2208	VSG1020	C101		ACH1462
	ASS1162 S3B-EH	C102,103,105 C104,106		CKSSYB104K10 CKSSYB103K16
CN2201 3FIN CONNECTOR	33D-L11	C107-111,130-	132	CKSSYB104K10
RESISTORS		0107 111,100	.02	ONOO I DIO IN IO
R2204,2207	RS1/10SR2202F			
R2210	RAB4CQ182J			
Other Resistors	RS1/10SR###J	DD ASSY		
0.4.0.4.0.17.0.0.0				
CAPACITORS	OL/ODVD 4701/50	SEMICONDU	<u>CTORS</u>	
C2201,2202,2205 C2203,2204,2208	CKSRYB472K50 CCSRCH101J50	⚠ IC301		LM3478MMX
C2205,2204,2206 C2206	CKSRYB104K50	<b>∆</b> IC302		MP2367DN-LF
C2207	CEHVKW470M6R3	⚠ IC303 ⚠ IC305		NCP521IBDG MD3222N
		⚠Q301		UPA1725G
				0.77200
LED0 4001/		<b>⚠</b> Q302,303		TPC8021H
LED2 ASSY		Q304-306		2SC4081
		⚠ D301 ⚠ D302		M2FM3
<u>SEMICONDUCTORS</u>		⚠ D303,306		1SMA8.0AG D1FM3
Q2401	HN1B04FU	<u></u> D000,000		DITIVIS
Q2403-2405	2SC4081 2SA1576A	D304		RB551V-30
Q2406 D2401	S9561	D307,312		1SS352
D2402	SPR-39MVWF	D308		UDZS5R1(B)
		MICCELLAND	OLIC	
<b>MISCELLANEOUS</b>		MISCELLANE	<u>:005</u>	ATL 14 004
CN2401 CONNECTOR 8P	AKM1294	L301 L302		ATH1221 ATH1220
U2401 REMOTE RECEIVER UNIT	RPM6940-V4	L303		ATH1218
DECICTORS		L304		ATH1219
RESISTORS	D04/0004004	L305		ATH1222
R2416-2419 All Resistors	RS1/8SQ130J RS1/10SR###J			
All nesistors	no i/ iuon###J	L306-308,310,3	311	BTX1042
CAPACITORS		L309	TEOTOD (40A)	BTX1039
C2401,2405,2409	CKSRYB104K25	F301,303 PRC KN301,303 GF		BTX1041 VNF1109
C2402-2404	CKSRYF105Z16	CN301 CONN		B3P-VH
C2407,2408	CEHVKW470M16	0.100.		20
		CN309 PLUG		KM200NA6
		CN304 PLUG	(10P)	KM200NA10
LVDS ASSY		CN307 PLUG		KM200NA12
LVD3 A331		CN302 PLUG ⚠ FU301,302 PR		KM200NA13 AEK1085
SEMICONDUCTORS		<u> </u>	OTEOTOTI (TOA)	ALITIOOS
IC101	THC63LVD104AF	CN311 PLUG	(4P)	KM200NA4
Q101	2SC4081	CN312 PLUG		KM200NA5
		CN305 PLUG	` '	KM200NA7
<b>MISCELLANEOUS</b>		CN306 PLUG	(8P)	KM200NA8
F101,102,105,106	BTX1041	RESISTORS		
KN101	VNF1109	R302		RS1/10SR1002F
CN101 CONNECTOR	AKM1340	R303		RS1/10S4302F
CN102 20P CONNECTOR CN103 50P CONNECTOR PBF	AKM1343 AKM1353	R304		RS1/10S2701F
CIVIUS SUP CONNECTOR FBF	ANIVITOOO	R305		RS1/10S681J
CN104 20P FFC CONNECTOR	AKM1235	R306-309,330-	333	ACN1265
CN106 CONNECTOR 3P	AKM1289	D04.4		D04/4004004E
⚠ FU102 PROTECTOR (1A)	AEK1073	R314 R315		RS1/16S1201F RS1/10SR3902F
DEGLOTOES		R316		RS1/16S9101F
RESISTORS	D04/40004005	R317		RS1/16S1303F
R101-106	RS1/16SS1000F	R319,326		RS1/16S100J
R107-109,112 R115	RAB4CQ470J RS1/16S220J			<b>DO</b> 441-55-111-5
R116-118	RAB4CQ470J	R320		RS1/16S5102F
R156	RS1/8SQ103J	R322		RS1/16S101J
40	בחם	507CMX		
1 =	2	307CIVIX		4
· —	<del>-</del>	0	_	•

Α

В

С

D

Ε

F

<b>■</b> 5	6	7	<b>8</b>
Mark No. Description	n Part No.		
R323,334,336	RS1/10SR1001F		
R324	RS1/10SR2201F		
R325	RS1/16S1200F		
R335	RS1/10SR1302F		
R339	RS1/16S183J RS1/10S0R0J		
R352-354,379-383 R373	RS1/10S4R7J		
R374,405	RS1/10S4N/3		
1107-4,400	1101/1001000		
R375,377,378	RS1/10S103J		
R384,385	RS1LMFR68J		
R386	ACN1265		
R388-390	RS1/10S511J		
R391	RS1/16SS104J		
R397	ACN1266		
R398	RS1/10S0R0J		
R402	RS1/16S0R0J		
Other Resistors	RS1/10SR###J		
CAPACITORS			
C301,313,320	ACH1459		
C302,303,314,321 C304	CKSRYB104K25 CCSRCH101J50		
C305,308	CKSRYB103K50		
C306	ACH1458		
	7.0		
C307,311,312,349	CCG1195		
C309	CKSRYB272K50		
C310,315	CKSRYB474K10		
C316,317,351,352 C318	CCSRCH102J50 CKSRYB681K50		
0316	CNSH1 DOCTNOO		
C322	CKSRYB334K10		
C323	ACH1462		
C324	CKSRYB222K50		
C325,345	CKSRYB105K10		
C326	CKSYB105K25		
C327,328	ACH1461		
C329	CKSRYB104K50		
C330	CKSRYB102K50		
C332,336-338,350	CKSRYB104K25		
C334,335	CCH1687		
C339,340,343,344	CKSQYB105K16		
C341	CKSQYB474K25		
C342	BCG1060		
C346	CCSRCH151J50		
C353	CKSRYB104K25		
POWER SUPPLY UNIT			
. 3 33 2 31111			

POWER SUPPLY Unit has no service part.

41

В

С

D

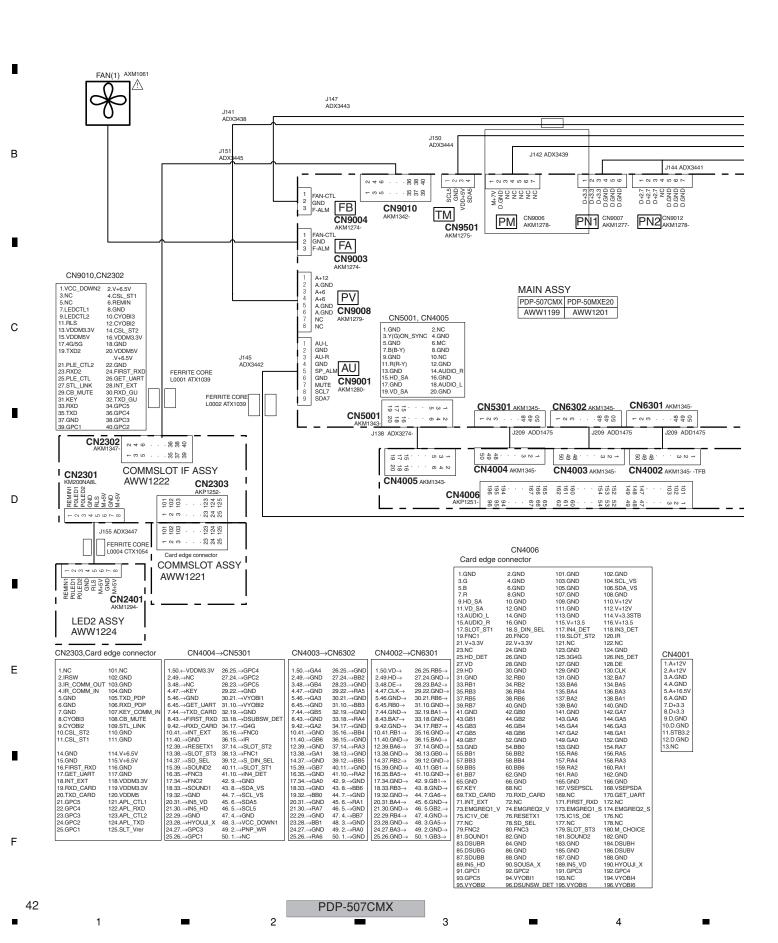
Ε

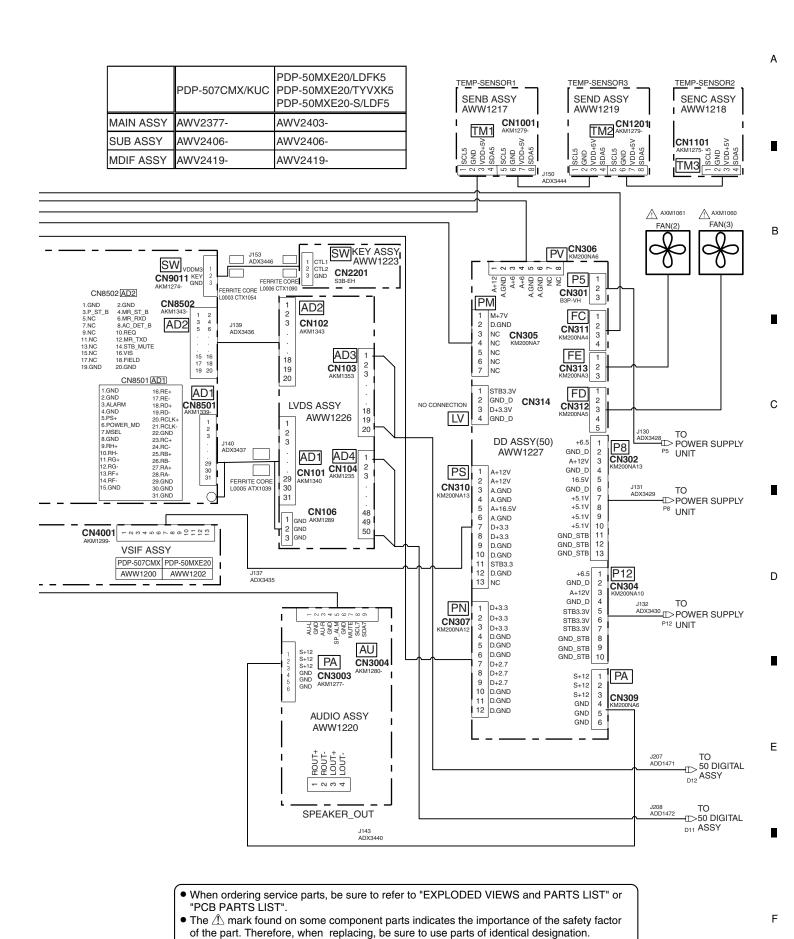
PDP-507CMX

# 4. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

#### 4.1 OVERALL CONNECTION DIAGRAM (1/2)

Α



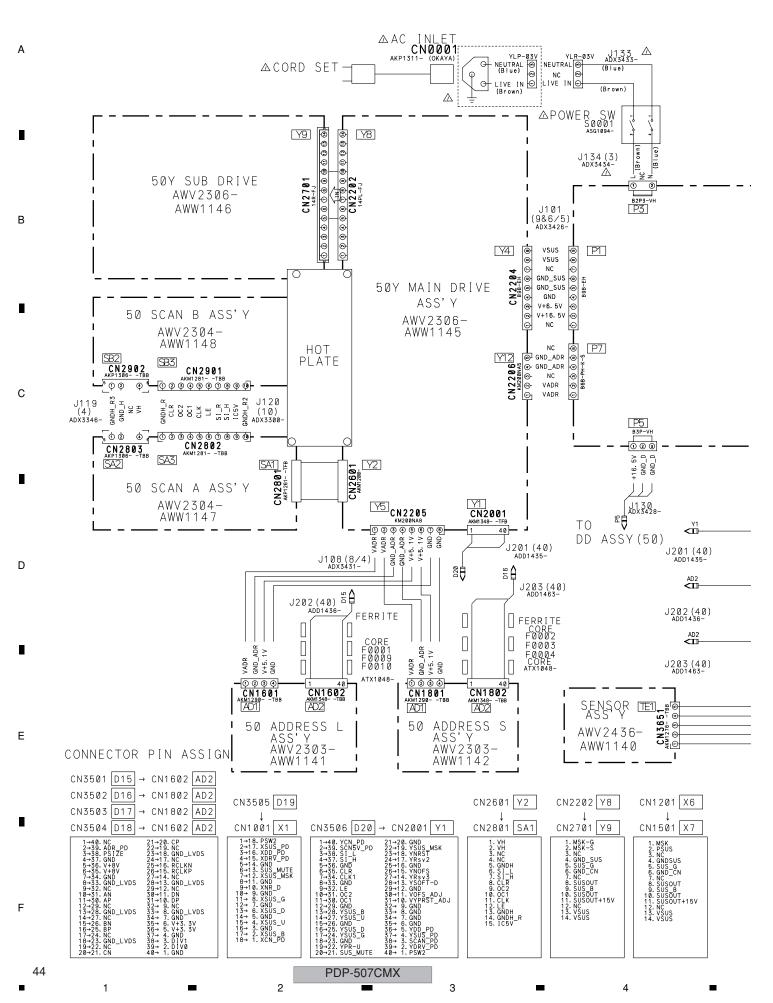


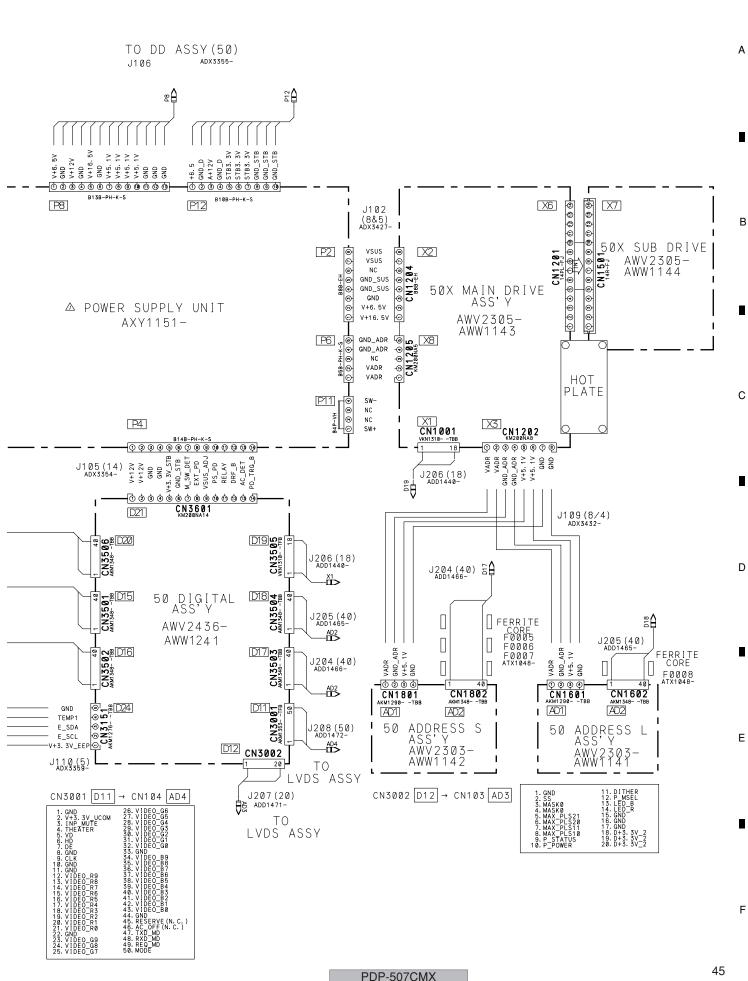
• The encircled numbers denote measuring point in the schematic diagram.

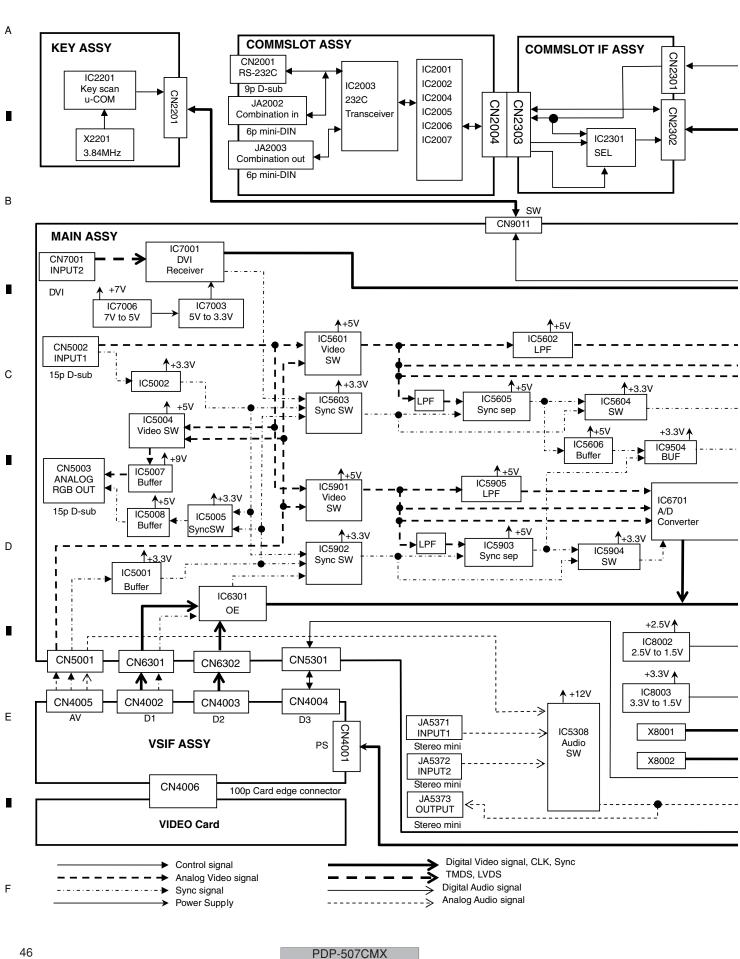
PDP-507CMX

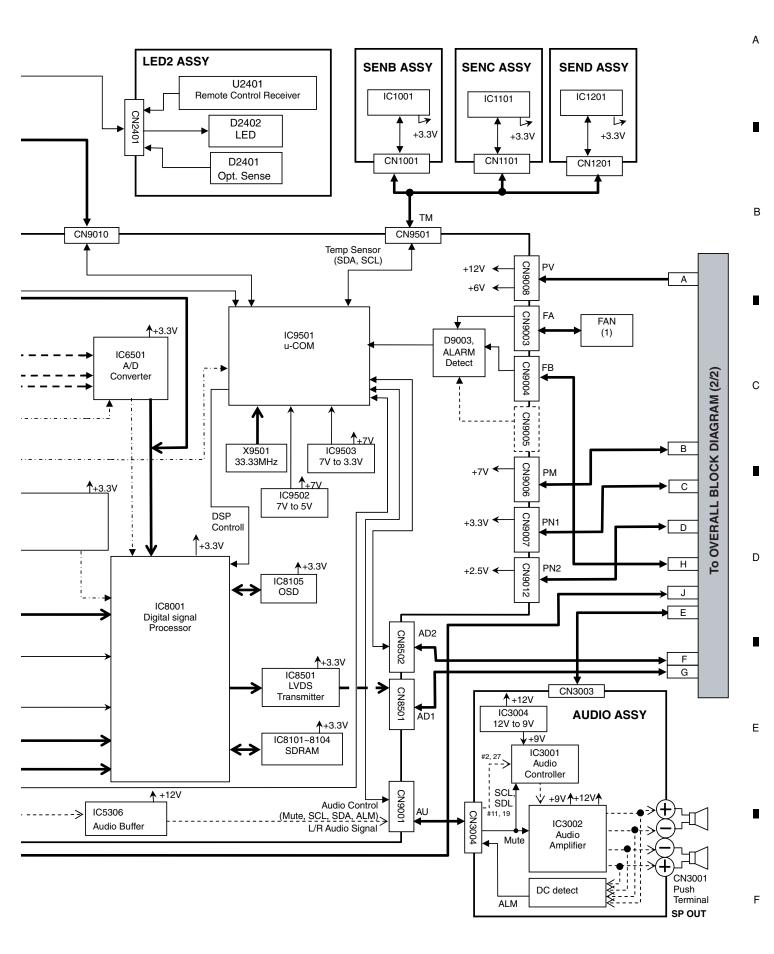
Encircled numbers, refer to service manual (ARP3403).

## 4.2 OVERALL CONNECTION DIAGRAM (2/2)



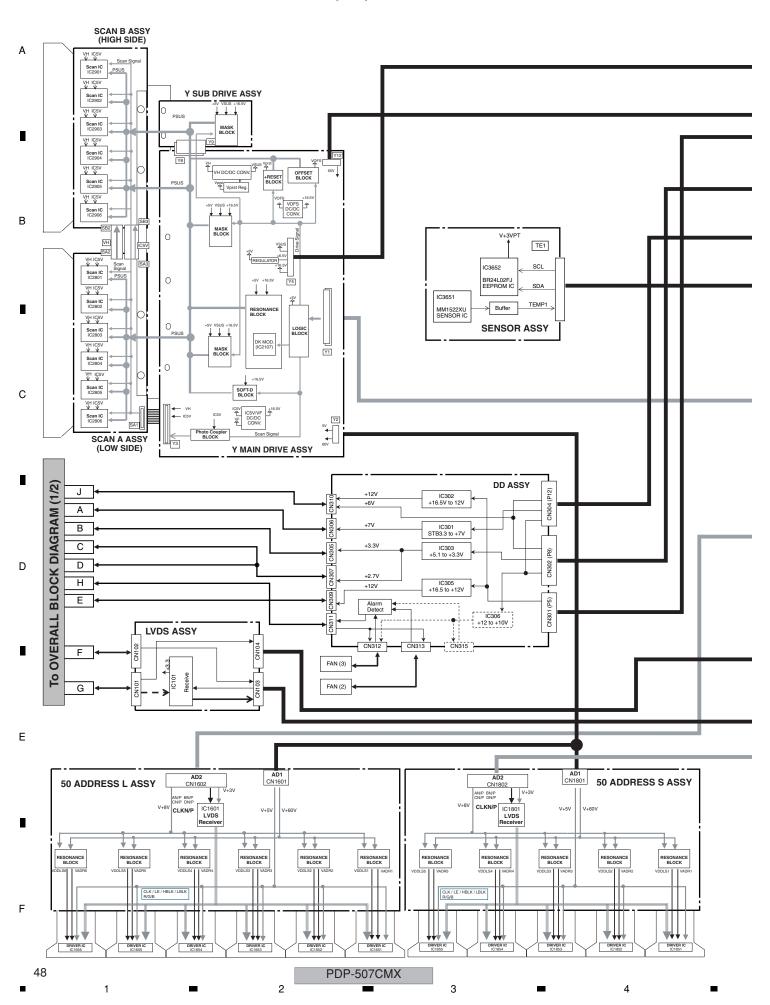


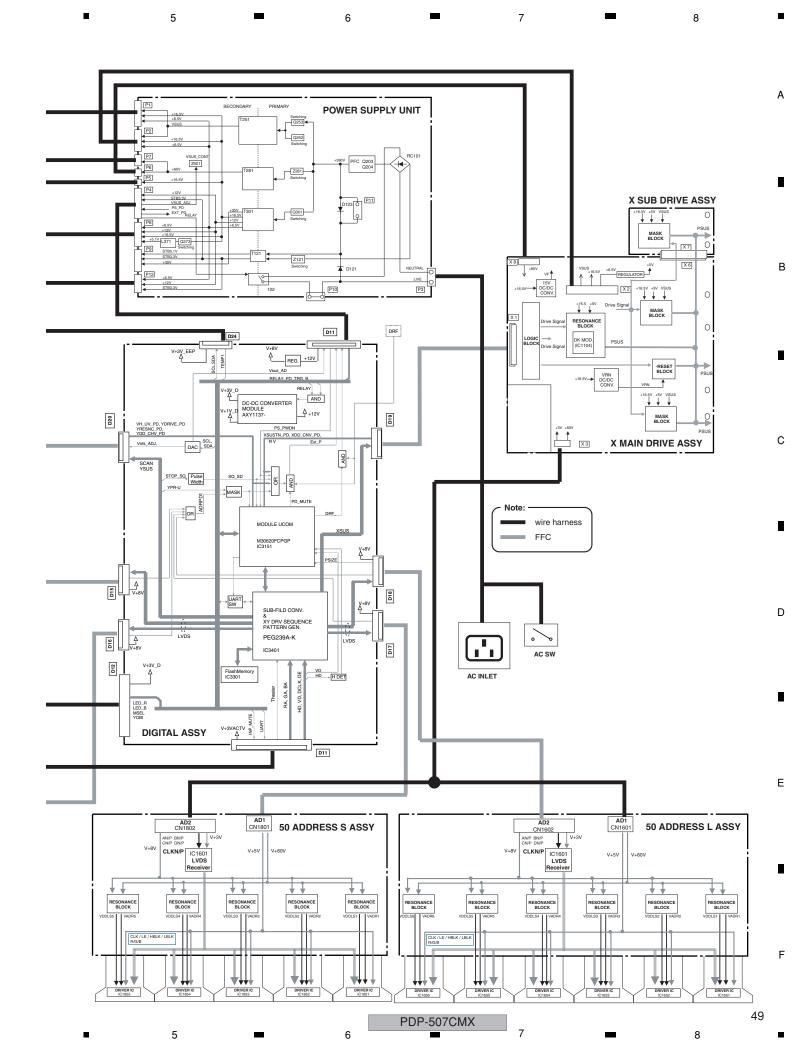




PDP-507CMX

## 4.4 OVERALL BLOCK DIAGRAM (2/2)



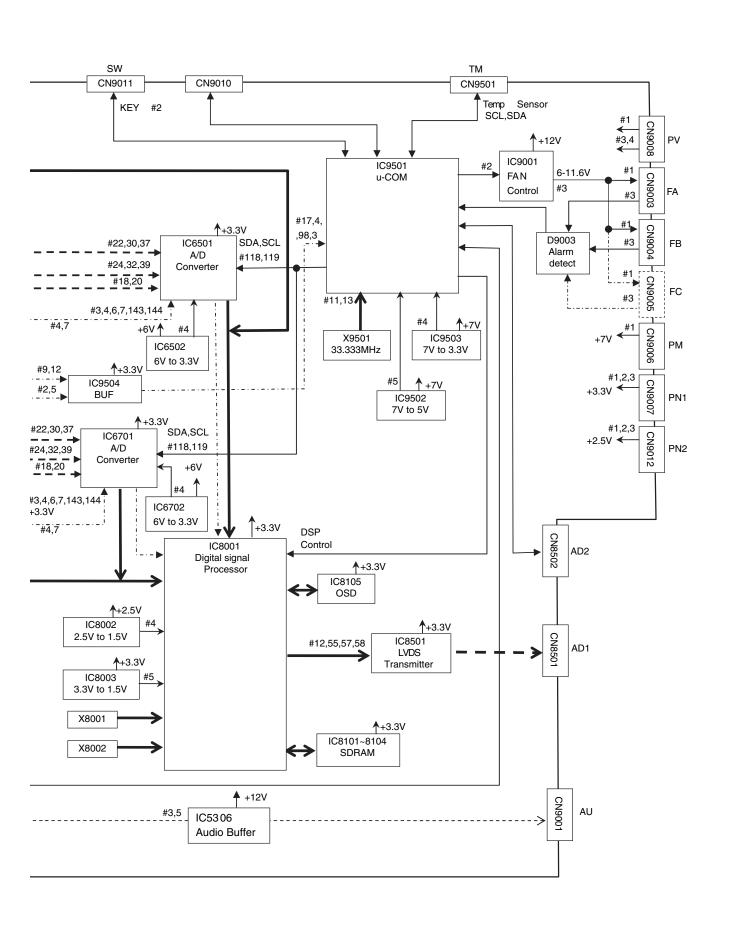


Α

В

С

Е



7

8

В

С

D

Е

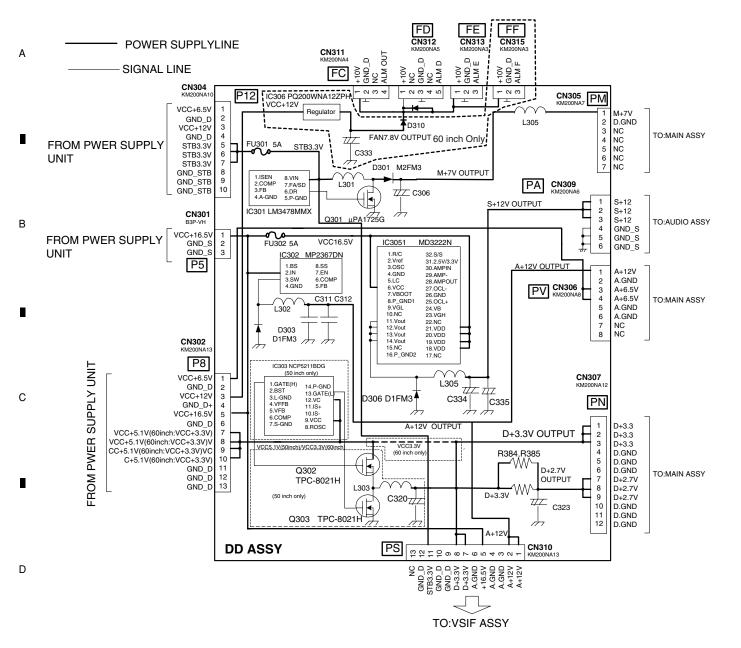
51

PDP-507CMX

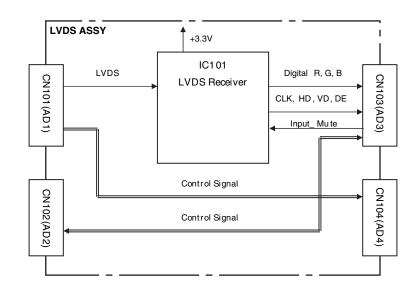
5

5

#### 4.6 DD and LVDS ASSYS



3



52

Ε

PDP-507CMX

PDP-507CMX

6

7

8

Α

В

С

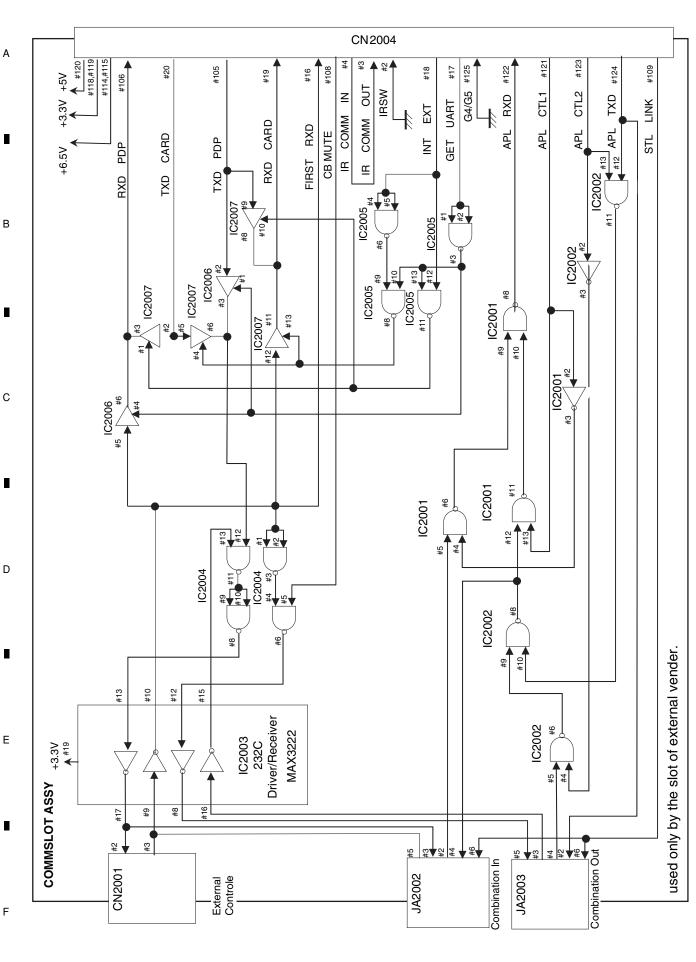
D

Е

53

8

F



3

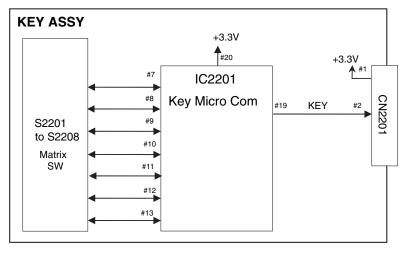
4

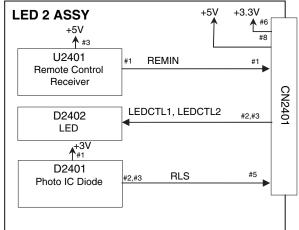
54

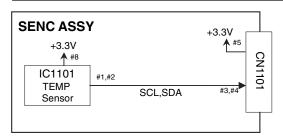
PDP-507CMX

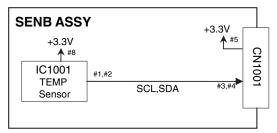
-

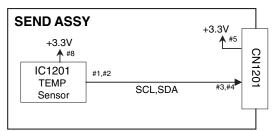
## 4.9 KEY, LED2, SENB, SENC and SEND ASSYS











Α

В

С

D

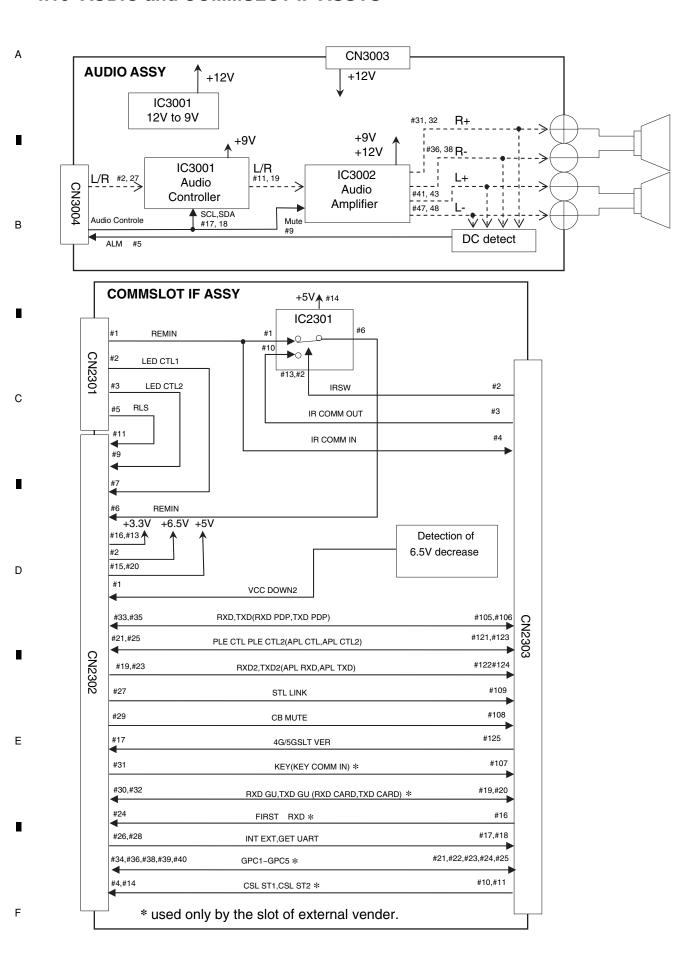
Ε

F

55

8

#### 4.10 AUDIO and COMMSLOT IF ASSYS



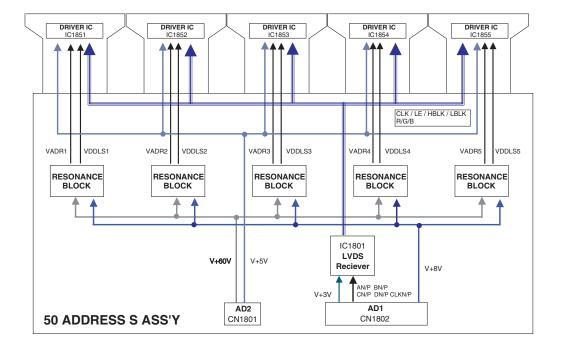
PDP-507CMX

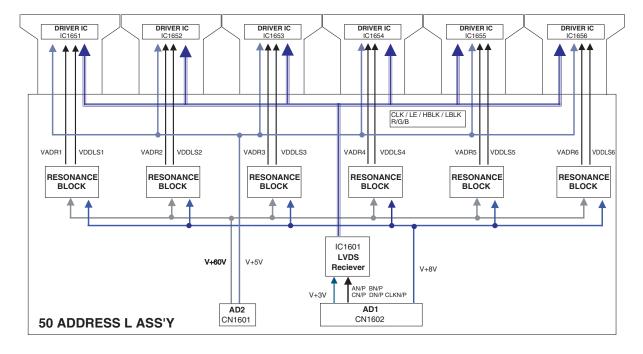
В

С

D

Е





57

F

PDP-507CMX

5

В

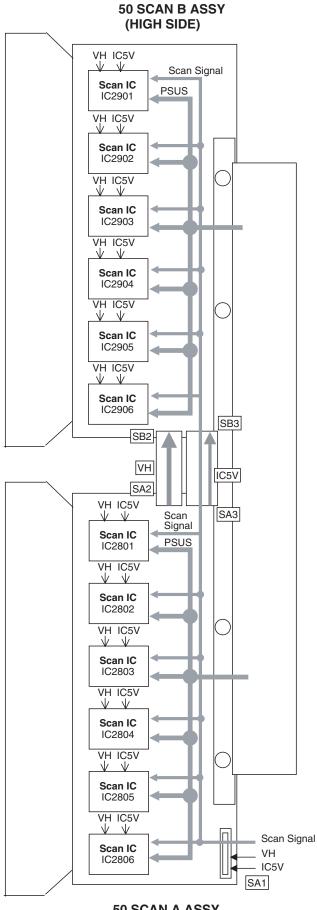
D

Ε

F

58

1 -

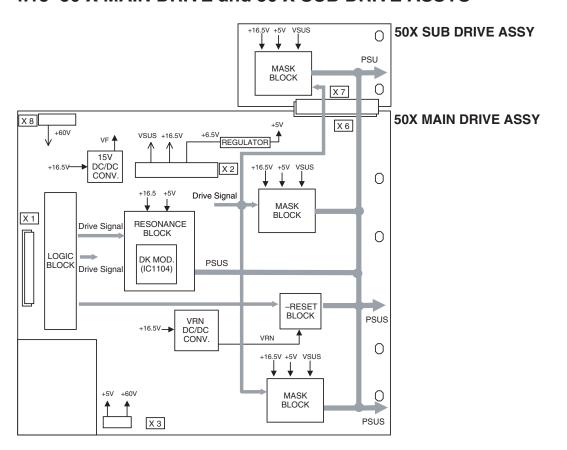


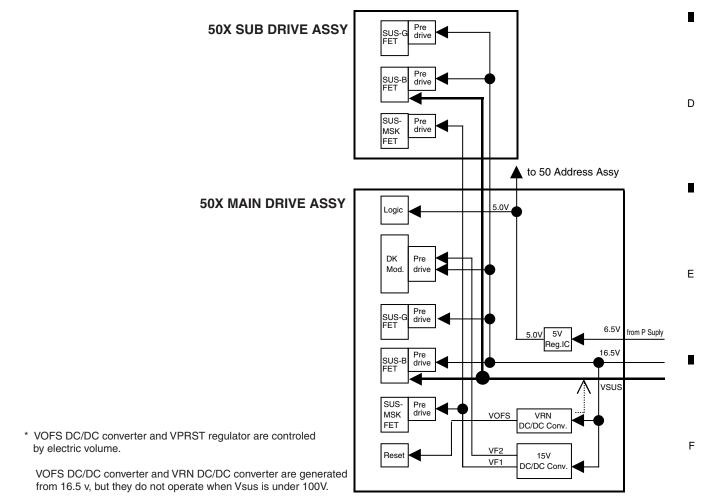
3

50 SCAN A ASSY (LOW SIDE)

PDP-507CMX

#### 4.13 50 X MAIN DRIVE and 50 X SUB DRIVE ASSYS





PDP-507CMX

6

5

59

8

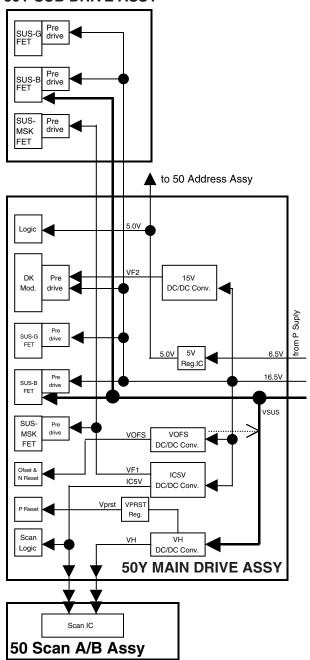
В

С

#### 4.14 50 Y MAIN DRIVE and 50 Y SUB DRIVE ASSYS

#### **50Y SUB DRIVE ASSY** 0 PSUS MASK BLOCK 0 В Y12 Y8 VH DC/DC 60V OFFSET CONV +RESET BI OCK BLOCK 个 Vprst Reg. VOFS +16.5V VOFS +5V VSUS +16.5V 弇 DC/DC CONV. **PSUS** MASK BLOCK 0 Drive Signal REGULATOR 0 +5V +16.5V Y4 RESONANCE BLOCK +5V VSUS +16.5V 0 LOGIC BLOCK D DK MOD. (IC2107) MASK PSUS Y1 BLOCK 0 +16.5V SOFT-D BLOCK +16.5V IC5V/VF IC5V DC/DC Y5 CONV. Photo Coupler Ε BLOCK **50Y MAIN DRIVE ASSY**

#### **50Y SUB DRIVE ASSY**



\* VOFS DC/DC converter and VPRST regulator are controled by electric volume.

VOFS DC/DC converter and VRN DC/DC converter are generated from 16.5 v, but they do not operate when Vsus is under 100V.

60

F

Α

PDP-507CMX

PDP-507CMX

6

5

7

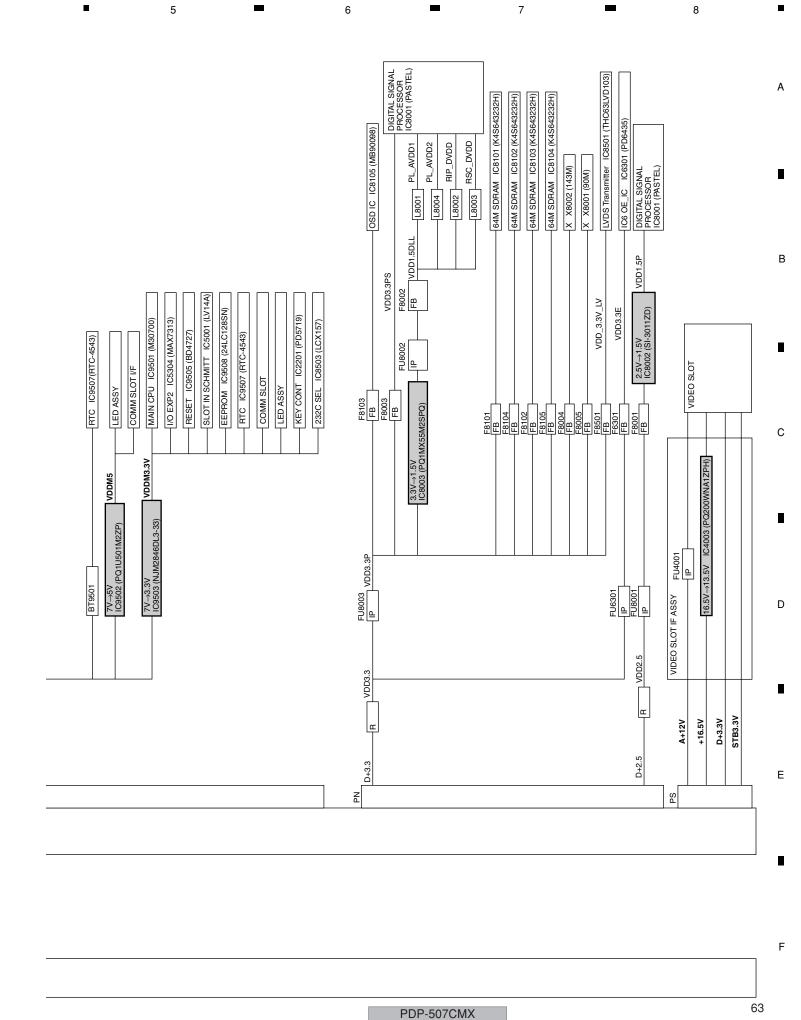
8

61

4

2

3



## 4.17 CONNECTOR PIN DESCRIPTION

Α

В

(Caution)The operating voltages specified below are used in common inspective of the presence of signals. In this case, however, part of the oprating voltages(red characters)may change according to the signal conditions when the main power supply is turned on (POWER botton ON).

Style of LED inhibition: 4 for this light on and 4 the form of the signal conditions when the main power supply is turned on (POWER botton ON).

		1			AC power ON		Numerical unit:Vdc /ER "ON"★	, except for case v	whwn units are indi		AC Power OFF	<u>-</u> :
Name	Pin No.	Pin name	FuNon-connection	n termialtion	(Power coad connected to the wal outlet)	No signal	With signal	Power management ★★★	Standby ★★★	Main power OFF ★★	(Power cord pulled out of the wall outlet	Signal direction (DR : Data Relay)
PN1	1	D+3.3	3.3V power supply for digital circuits	MAIN	0	3.3	3.3	(	0	(	0	DD→MAIN
CN9007	2	D+3.3	3.3V power supply for digital	MAIN	0	3.3	3.3	(	0 0	(	0	DD→MAIN
	3	D+3.3	circuits 3.3V power supply for digital	MAIN	0	3.3	3.3	(	0 0	(	0	DD→MAIN
	4	D.GND	circuits GND	MAIN	0	0	0		D: 0	(	): O	
	5	D.GND	GND	MAIN	0	0	0	(	0 0	(	0	-
PN2	1	D.GND D+2.5	GND 2.5V power supply for digital	MAIN	0				0 0			DD→MAIN
CN9012	2	D+2.5	2.5V power supply for digital	MAIN	0	2.5-3.3	2.5-3.3	(	0 0	(	0	DD→MAIN
	3	D+2.5	circuits 2.5V power supply for digital		0	2.5-3.3	2.5-3.3	(	0 0	(	0	DD→MAIN
	4	NC	Circuits Non-connection termial	MAIN	-							
	5 6	D.GND D.GND	GND GND	MAIN	0							- :
PN	7	D.GND D+3.3	GND 3.3V power supply for digital	MAIN	0							- DD→MAIN
CN307	2	D+3.3	circuits  3.3V power supply for digital		0				0 0			DD→MAIN
014007	3	D+3.3	circuits  3.3V power supply for digital		0				0 0			DD→MAIN
	4	D.GND	circuits GND	DD	0							DD-WAIN
	5	D.GND	GND	DD	0	0	0	(	0 0	(	0	
	7	D.GND D+2.7	GND 2.7V power supply for digital	DD DD	0							DD-MAIN
	8	D+2.7	2.7V power supply for digital	DD	0	2.5-3.3	2.5-3.3	(	0 0	(	0	DD→MAIN
	9	D+2.7	2.7V power supply for digital	DD	0	2.5-3.3	2.5-3.3	(	0 0	(	0	DD→MAIN
	10	D.GND	GND	DD	0							-
	11	D.GND D.GND	GND GND	DD	0							-
P8	1	V+6.5	6.5V power supply for analog circuits	DD	0							PSU→DD
CN302	3	GND V+12V	GND 12V power supply for analog	DD	0							- PSU→DD
	4	GND	circuits GND	DD	0				1			100 -00
	5	V+16.5V GND	GND GND	DD DD	0	0	0	(	D C	(	) -	-
	7	V+5.1V	5.1V power supply for digital		0							PSU→DD
	8	V+5.1V	5.1V power supply for digital circuits	DD	0	5.1	5.1	(	D C	(		PSU→DD
	9	V+5.1V	5.1V power supply for digital	DD	0	5.1	5.1	(	0	(		PSU→DD
	10	V+5.1V	5.1V power supply for digital	DD	0	5.1	5.1	(	0	(	)	PSU→DD
	11	GND	GND	DD	0							-
	12	GND GND	GND GND	DD DD	0	0	0	(	D C	(	0	
P8	1	V+6.5	6.5V power supply for analog circuits	PSU	0						-	PSU→DD
F	3	GND V+12V	GND 12V power supply for analog	PSU PSU	0		0 12	(				- PSU→DD
	4	GND	circuits GND	PSU	0	0	0	(	0 0	(	0	
	5 6	V+16.5V GND	GND GND	PSU PSU	0							
	7	V+5.1V	5.1V power supply for digital circuits	PSU	0							PSU→DD
	8	V+5.1V	5.1V power supply for digital circuits	PSU	0	5.1	5.1	(	) (	(		PSU→DD
	9	V+5.1V	5.1V power supply for digital circuits	PSU	0	5.1	5.1	(	0	(		PSU→DD
	10	V+5.1V	5.1V power supply for digital circuits	PSU	0	5.1	5.1	(	0	(		PSU→DD
	11 12	GND GND	GND GND	PSU PSU	0							
B40	13	GND	GND	PSU	0	0	0	(	0 0	(	0	
P12	1	+6.5	6.5V power supply for analog circuits	DD	0						-	PSU→DD
CN304	3	GND D A+12V	GND 12V power supply for analog	DD DD	0							PSU→DD
	4	GND_D	GND	DD	0	0	0	(	0 0	(	0	
	5	STB3.3V	3.3V power supply for standby	DD	3.3	3.3	3.3	3.0	3 3.3	3.0		PSU→DD
	6	STB3.3V	3.3V power supply for standby	DD	3.3							PSU→DD
	7	STB3.3V	3.3V power supply for standby	DD	3.3							PSU→DD
	8 9	GND STB GND STB	GND GND	DD DD	0							
P12	10	GND STB +6.5	GND 6.5V power supply for	DD PSU	0	0	0	(		(	0	
1 12	2	GND D	analog circuits GND	PSU	0							PSU→DD
	3	A+12V	12V power supply for analog		Ö				o o			PSU→DD
	4	GND_D	GND	PSU	0				0			-
	5	STB3.3V	3.3V power supply for standby	PSU	3.3						-	PSU→DD
	6	STB3.3V	3.3V power supply for standby	PSU	3.3						-	PSU→DD
	7	STB3.3V	3.3V power supply for standby	PSU	3.3							PSU→DD
	8 9	GND STB GND STB	GND GND	PSU PSU	0				D C			•
PM	10	GND STB M+7	GND 7V power supply for	PSU MAIN	0 6.8	0	0	(	D) C	(	0	- DD→MAIN
CN9006	2	D.GND	microcomputer GND	MAIN	0.6						-	- WAIN
,0000	3	POWER	Power control	MAIN	0	4.9	4.9	(	0	(		MAIN→DD
	5	D.GND POMUTE	GND Mute signal for AC power	MAIN MAIN	0 4.8						3	- DD→MAIN
	6	SW7	OFF Power start control	MAIN	0						4.8→-	DD→MAIN
	7	NC	Non-connection termial	MAIN	-		-				-	
PM	7	M+7	7V power supply for microcomputer	DD	0							DD→MAIN
CN305	6 5	D.GND NC	GND Non-connection termial	DD DD	0				) <u>(</u>			- MAIN→DD
	4	NC	Non-connection termial	DD			-					
	3	NC NC	Non-connection termial  Non-connection termial	DD	-		-					DD→MAIN DD→MAIN
PV	1 1	NC A+12	Non-connection termial 12V power supply for analog	DD	- 0						-	
1 V	1 '		circuits GND	1	ı	12	12	,	4		1 4	DD→MAIN

64

Ε

PDP-507CMX

3

Name	Pin No.	Pin name	FuNon-connection		AC power ON (Power coad connected to the wal outlet)	MAIN POV	VER "ON"★ With signal	Power management	whwn units are indiv	Main power OFF ★★	AC Power OFF (Power cord pulled out of the wall outlet	Signal direction (DR : Data Relay)
	3	A+6	6V power supply for analog circuits		(	) (	6	(	0	(	0	DD→MAIN
	4	A+6	6V power supply for analog circuits	MAIN		) (	6	(	0	(	0	DD→MAIN
	5	A.GND	GND	MAIN	(							
	- 6 7	A.GND NC	GND Non-connection termial	MAIN		) (	0	(		(	0 0	
PV	8	NC A+12	Non-connection termial	MAIN		) 12	. 12	(				
	1		12V power supply for analog circuits				į .					DD→MAIN
CN306	3	A.GND A+6	GND 6V power supply for analog	DD								- DD→MAIN
			circuits									
	4	A+6	6V power supply for analog circuits		(							DD→MAIN
	5 6	A.GND A.GND	GND GND	DD DD	(							-
	7	NC	Non-connection termial Non-connection termial	DD			-					
AU	8	NC AU_L	Audio signal L CH	DD		0 0	Selected input	(	0 0	(	0 0	 MAIN→AUDIO
CN9001 CN3004							signals are output					
	2	GND	GND			) (						
	3	AU_R	Audio signal R CH			0 0	Selected input signals are output	(	0	(	0	MAIN→AUDIO
	<u>4</u> 5	SP_ALM	GND Audio output alarm signal		(	3.0	3.3			(	0	- AUDIO→MAIN
	6	GND	GND									AODIO MIAIN
	7	MUTE	Mute signal of audio output		(		0→4.5→9.0	(	0	(	0	MAIN→AUDIO
						4.5V (4 sec.) a power on	power on.					
	8	SCL7	Clock line of the I2C bus				Clock signal (5Vac) when data	(	0	(	0	MAIN→AUDIO
						are received; 5Vdc when no	are received; 5Vdc when no					
			1			data are	data are					
						received.	received.					
	9	SDA7	Data line of the I2C bus		(	Clock signal	Clock signal	1	1 1	(	0 0	MAIN→AUDIO
			1			(5Vac when data are received;	(5Vac when data are received;					
						5Vdc when no data are	5Vdc when no data are					
			1			received.	received.					
TM	1	SCL5	Clock line of the I2C bus			clock signal use	alask signal usa	(	) 0	(	2	
CN9501	' '	SOLS	Clock line of the I2C bus		'	during data	during data			•		MAIN→SENB
						transmission(3.3 Vac),3.3Vdc	transmission(3.3 Vac),3.3Vdc					
						when no data are transmitted	when no data are transmitted					
						transmitted	transmitted					
	3	GND VDD+3.3V	GND 3.3V power supply for									MAIN→SENB
	4	SDA5	analog signals Data line of the I2C bus			During data	During data	(				MAIN←→SENB
	"	SDAS	Data line of the 120 bus		,	exchange: Clock	exchange: Clock	,				MAIN
						signal (3.3Vac),datanot	signal (3.3Vac),datanot					
						exchanged: 3.3Vdc	exchanged: 3.3Vdc					
		0015	01 1 1 7 11 100 1		ļ.,							
T M 1 CN1001	1	SCL5	Clock line of the I2C bus		,	during data	Clock signal used during data	(	0	(	, 0	MAIN→SENB
						transmission(3.3 Vac), 3.3Vdc	transmission(3.3 Vac), 3.3Vdc					
						when no data are	when no data are					
						transmitted	transmitted					
	3	GND VDD+3.3V	GND 3.3V power supply for									MAIN→SENB
	4	SDA5	analog signals Data line of the I2C bus		-	During data	During data	(	) 0		2	MAIN←→SENB
	"	SDAS	Data line of the 120 bus		,	exchange: Clock	exchange: Clock			•		MAIN
						signal (3.3Vac),datanot	signal (3.3Vac),datanot					
						exchanged: 3.3Vdc	exchanged: 3.3Vdc					
		PCI E	Clock line -f th - 700 :	-	1							
	5	SCL5	Clock line of the I2C bus		'	during data	Clock signal used during data	(	0	(	٩	SENB→SEND
			1			transmission(3.3	transmission(3.3 Vac), 3.3Vdc					
			1			when no data are	when no data are transmitted					
	6	GND	GND					(	0 0	(	2	
	7	VDD+3.3V	3.3V power supply for		(							SENB→SEND
	8	SDA5	analog signals Data line of the I2C bus			During data	During data	(	0 0	(	0 0	SENB←→SEND
						exchange: Clock signal	exchange: Clock signal					
						(3.3Vac).datanot	(3.3Vac),datanot					
						exchanged: 3.3Vdc	exchanged: 3.3Vdc					
		SCL5	Clock line of the I2C bus		-		Clock signal used	(	) 0	(	) ^	SENB→SEND
T M 2	1	1			`	during data	during data transmission(3.3	`			٦	35.10
T M 2 CN1201	1					Vac), 3.3Vdc	Vac), 3.3Vdc					
T M 2 CN1201	1					when no data are transmitted	when no data are transmitted					
T M 2 CN1201	1											
T M 2 CN1201	1											
T M 2 CN1201		GND	GND		,	i i	_	,	) ^	,	2	
T M 2 CN1201	2 3	GND VDD+3.3V	GND 3.3V power supply for		(							- SENB→SEND
T M 2 CN1201	2		3.3V power supply for analog signals		Ċ	3.0 During data	3.3 During data		0	(	0	
T M 2 CN1201	2 3	VDD+3.3V	3.3V power supply for		Ċ	3.0 During data exchange: Clock	3.3  During data exchange: Clock	(	0	(	0	SENB→SEND SENB←→SEND
T M 2 CN1201	2 3	VDD+3.3V	3.3V power supply for analog signals		Ċ	During data exchange: Clock signal (3.3Vac),datanot	During data exchange: Clock signal (3.3Vac),datanot	(	0	(	0	
T M 2 CN1201	2 3	VDD+3.3V	3.3V power supply for analog signals		Ċ	During data exchange: Clock signal (3.3Vac),datanot exchanged:	During data exchange: Clock signal (3.3Vac),datanot exchanged:	(	0	(	0	
T M 2 CN1201	2 3 4	VDD+3.3V SDA5	3.3V power supply for analog signals Data line of the I2C bus		(	During data exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc	During data exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc	(	0		0	SENB←→SEND
T M 2 CN1201	2 3	VDD+3.3V	3.3V power supply for analog signals		(	During data exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc	During data exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc	(	0		0	
T M 2 CN1201	2 3 4	VDD+3.3V SDA5	3.3V power supply for analog signals Data line of the I2C bus		(	During data exchange: Clock signal (3.3 Vac), datanot exchanged: 3.3 Vdc Clock signal used during data transmission(3.3	During data exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc Clock signal used during data transmission(3.3	(	0		0	SENB←→SEND
T M 2 CN1201	2 3 4	VDD+3.3V SDA5	3.3V power supply for analog signals Data line of the I2C bus		(	During data exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc Clock signal used during data transmission(3.3 Vac), 3.3Vdc when no data are	During data exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc Clock signal used during data transmission(3.3 Vac), 3.3Vdc when no data are	(	0		0	SENB←→SEND
TM 2 CN1201	2 3 4	VDD+3.3V SDA5	3.3V power supply for analog signals Data line of the I2C bus		(	During data exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc Clock signal used during data transmission(3.3 Vac), 3.3Vdc	During data exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc Clock signal used during data transmission(3.3 Vac), 3.3Vdc	(	0		0	SENB←→SEND

В

С

D

Ε

PDP-507CMX

5

5

1 2 3 4

Name	Pin No.	Pin name	FuNon-connection termialtion	AC power ON M (Power coad connected to the	peration(Numerical unit:Vdc: IAIN POWER "ON"★ signal With signal	Power management **	Standby	Main power OFF ★★	AC Power OFF (Power cord pulled out of the wall outlet	Signal direction (DR : Data Relay)
	7	VDD+3.3V	3.3V power supply for	0	3.3 3.3	0	0		0 0	SEND→SENC
	- 8	SDA5	analog signals Data line of the I2C bus	0 During d		0	0			
	8	SDAS	Data line of the I2C bus	exchang signal	e: Clock exchange: Clock signal ,datanot (3.3Vac),datanot	U	u			SEND←→SENC
T M 3 CN1101	1	SCL5	Clock line of the I2C bus	0 Clock się during d transmis Vac), 3.3	gnal used Clock signal used ata during data sion(3.3 transmission(3.3 8Vdc Vac), 3.3Vdc	0	0		0 0	SEND→SENC
		OND	GND	when no transmitt						
	3	VDD+3.3V	3.3V power supply for	0	0 0 3.3 3.3	0	0		0 0 0 0	SEND→SENC
	4	SDA5	analog signals Data line of the I2C bus	signal	e: Clock exchange: Clock signal ,datanot (3.3Vac),datanot	O	0		O O	SEND←→SENC
		FAN. 071	V	0.44.00//						
FA CN9003	1	FAN-CTL	Voltage- controllable power supply	0 11.6Vdc high-spe revolition mode H during m speed re (Fan mo 5.6Vdc low-spee revolition mode L) while th stopped	high-speed high-speed recolution (Fan sedium de M) (Fan mode M) during seed revoiltion (Fan mode M) during seed revoiltion de M) (Fan mode M) iow-speed low-speed model L) (OVdc white fan is white the fan is sedium fan se	0	0		o o	MAIN→FAN
	2	GND	GND	0	0 0	0	0		0 0	
	3	ALARM	Fan lock detect signal output	Fan ope	while the 3.3Vdc while the	o o	0		0 0	FAN→MAIN
CD	1	FAN-CTL	Voltage- controllable power supply	0 11.6Vdc	during 11.6Vdc during	0	0		0 0	MAIN → DD
FB CN9004				high-spe recollition mode High during m speed re (Fan mo :6.0Vdc low-spee revoillion mode L) while the stopped	n (Fan revolition (Fan mode H); 8.8 V/dc during medium speed revolition speed revolition (Fan mode M); 6.0 V/dc during ad one fan is while the fan is					
	2	GND	GND	0	0 0	0	0		0 0	
		ALARM	Fan lock detect signal output	0 0V durin Fan ope	vhile the 3.3Vdc while the	Ö.	O.		0 0	DD → MAIN
FC CN311	1	+10V	Voltage- controllable power supply	0 11.6Veb high-spep mighting mode IH during m speed re (Fan mo 5.6VVdc low-sper revolition mode L) while the stopped	high-speed right of the mode Mills of the mode M	o	o		o o	MAIN → DD
	2	GND D	GND	0	0 0	0	0		0 0	
	3	NC ALM OUT	Non-connection termial Fan lock detect signal	0.01	g normal 0V during normal	0	0		0 0	DD → MAIN
			output	Fan ope 3.3Vdc v fan is sto	ration; Fan operation; while the opped fan is stopped					MAIN ⊷ UU
FD CN312	1	+10V	Voltage- controllable power supply	0 11 6Vdc high-spe revolition mode H during m speed re (Fan mo (5.0Vdc low-spe revolition mode L) while the stopped	high-speed high-speed (Fan revolution (Fan revolution (Fan resolution (Fan revolution red H) :8.8Vdc during medium speed revolution (Fan mode M) during :6.0Vdc during olow-speed low-speed revolution (Fan revolution (Fan revolution (Fan fan is with the fan is seed to see the seed of	o	o		0 0	DD→FAN
	2	NC	Non-connection termial						1	-
	3	NC GND D	GND	0	0 0	0	0		0 0	-
	4	ALM D	Non-connection termial Fan lock detect signal output	Fan ope	while the 3.3Vdc while the	0	0		0 0	- FAN→DD

F

Α

В

С

D

Е

66 ■ 1 ■

					10		Numerical unit:Vdc	except for case w	hwn units are ind	ividually indicated)	10 P	
me	Pin No.	Pin name	FuNon-connection	n termialtion	AC power ON (Power coad connected to the wal outlet)	No signal	VER "ON"★ With signal	Power management ★★★	Standby ★★★	Main power OFF ★★	AC Power OFF (Power cord pulled out of the wall outlet **	Signal direction (DR : Data Relay)
13	1	+10V	Voltage- controllable power supply			mode H) ;8.8Vdc	11.6Vdc during high-speed revolition (Fan mode H) ;8.8Vdc during medium speed revolition (Fan mode M) ;6.0Vdc during low-speed revolition (Fan mode L) ;0Vdc while the fan is stopped	0		0	0	DD→FAN
	3	GND ALM E	GND Fan lock detect signal output			0V during normal Fan operation; 6-11.6 Vdc while the fan is abnormally	0V during normal Fan operation; 6-11.6 Vdc while the fan is abnormally			0 (		- FAN→DD
$\dashv$	1	GND	GND	MAIN	0		stopped 0	0		0 (	0 0	
01	2	GND STATU S	GND Non-connection termial	MAIN MAIN	0		0	0		0 (	0 0	
þ	4	RFU	GND	MAIN	0					0 (	0 0	:
H	5 6	STB MUTE POWER	No use No use	MAIN MAIN						-		
F	7 8	MSEL GND	model select terminal Video system output clock+	MAIN	0					0 (		-
ŀ	9	RF-	Non-connection termial	MAIN						-		
F	10	RF+ RG-	Non-connection termial Non-connection termial	MAIN MAIN								
ļ	12	RG+	Non-connection termial	MAIN								•
E	13 14	RH- RH+	Non-connection termial Non-connection termial	MAIN MAIN							1	<u> </u>
-	15 16	GND RA-	GND Video system output A-	MAIN MAIN	0	Video mode	Video mode	0		0 (	0 0	- MAIN→LVDS
						LVDS serial differential A- output 0Vac; Bias 1.4Vdc	LVDS serial differential A- output 0.3Vac; Bias 1.25Vdc					
	17	RA+	Video system output A+	MAIN		Video mode LVDS serial differential A+ output 0Vac; Bias	Video mode LVDS serial differential A+ output 0.3Vac;	0		0	-	MAIN→LVDS
ļ	18	RB-	Video system output B-	MAIN		1.1Vdc Video mode LVDS serial differential B- output 0Vac; Bias	Bias 1.25Vdc Video mode LVDS serial differential B- output 0.3Vac;	0		0 (		MAIN→LVDS
-	19	RB+	Video system output B+	MAIN		1.4Vdc Video mode LVDS serial differential B+ output 0Vac; Bias	Bias 1.25Vdc Video mode LVDS serial differential B+	0		0 (	9	MAIN→LVDS
	20	RC-	Video system output C-	MAIN	0	1.1Vdc Video mode LVDS serial differential C-	Bias 1.25Vdc Video mode LVDS serial differential C-	0		0 (	) -	MAIN→LVDS
-	21	RC+	Video system output C+	MAIN	0	output 0Vac; Bias 1.4Vdc Video mode	output 0.3Vac; Bias 1.25Vdc Video mode	0		0 (	n -	MAIN→LVDS
						LVDS serial differential C+ output 0Vac; Bias	LVDS serial differential C+					WAIN -FADO
F	22 23	GND RCLK-	GND Video system output clock-	MAIN MAIN	0	Video data clock	Video data clock	0		0 (		- MAIN→LVDS
						LVDS serial differential clock- output 0.3Vac; Bias 1.25Vdc	LVDS serial differential clock- output 0.3Vac; Bias 1.25Vdc					
	24	RCLK+	Video system output clock+	MAIN		Video data clock LVDS serial differential clock+output 0.3Vac; Bias 1.25Vdc	Video data clock LVDS serial differential clock+output 0.3Vac; Bias 1.25Vdc	0		0	•	MAIN→LVDS
	25	RD-	Video system output D-	MAIN		Video mode LVDS serial differential D- output 0Vac; Bias	Video mode LVDS serial differential D- output 0.3Vac;	0		0 (		MAIN→LVDS
	26	RD+	Video system output D+	MAIN		1.4Vdc Video mode LVDS serial differential D+ output 0Vac; Bias	Bias 1.25Vdc Video mode LVDS serial differential D+ output 0.3Vac:	0		0 (	) -	MAIN→LVDS
	27	RE-	Video system output E-	MAIN	0	1.1Vdc Video mode	Bias 1.25Vdc Video mode LVDS serial differential E-	0		0 (	3	MAIN→LVDS
	28	RE+	Video system output E+	MAIN	0	1.4Vdc Video mode LVDS serial differential E+	Bias 1.25Vdc Video mode LVDS serial differential E+	0		0 (	D -	MAIN→LVDS
	29	GND	GND	MAIN	0		Bias 1.25Vdc	0		0. (	2 2	
Ė	30	GND	GND	MAIN	Ö	i	0	0	ĺ	0 (	0	:
+	31 1	GND GND	GND GND	MAIN LVDS	0	<u> </u>	0	0		0 (	0 0	•
1	2	GND STATU S	GND	LVDS	0		0	0		0 (	0 0	
	3		No use	LVDS	0					0 (		-
F	4 5	RFU STB MT	No use No use	LVDS LVDS	0					0 (		:
-	6	POWER MSEL	No use	LVDS LVDS	0	3.3	3.3	3.3	3.	3 (	0	
E	7 8	GND	model select terminal GND	LVDS	0		0	0		0 (		
F	9	RH+ RH-	Non-connection termial Non-connection termial	LVDS LVDS						-	<del></del>	•
þ	11	RG+	Non-connection termial	LVDS						-		:
-	12 13	RG- RF+	Non-connection termial Non-connection termial	LVDS LVDS	:							<u> </u>
F	14 15	RF- GND	Non-connection termial GND	LVDS LVDS	- 0		. 0	- 0		0 (	0 0	
ı	16	RE+	Video system output E+	LVDS	0	Video mode	Video mode LVDS serial	0		0 (		MAIN→LVDS
- 1							differential E+					

F

В

С

D

Ε

67

PDP-507CMX

6 \_\_\_

1 2 3 4

Name	Pin No.	Pin name	FuNon-connection	n termialtion	AC power ON (Power coad connected to the wal outlet)	No signal	VER "ON"★ With signal	Power management ★★★	Standby ★★★	Main power OFF ★★	AC Power OFF (Power cord pulled out of the wall outlet **	Signal direction (DR : Data Relay)
	17	RE-	Video system output E-	LVDS	C	Video mode LVDS serial differential E- output 0Vac; Bias	Video mode LVDS serial differential E- output 0.3Vac;	0	0	(	0 -	MAIN→LVDS
	18	RD+	Video system output D+	LVDS	C	1.4Vdc Video mode LVDS serial differential D+ output 0Vac; Bias	Bias 1.25Vdc Video mode LVDS serial differential D+ output 0.3Vac;	O	0	(	0 -	MAIN→LVDS
	19	RD-	Video system output D-	LVDS	(	1.1Vdc	Bias 1.25Vdc Video mode	0	0	(	0 -	MAIN→LVDS
						LVDS serial differential D- output 0Vac; Bias 1.4Vdc	LVDS serial differential D- output 0.3Vac; Bias 1.25Vdc					
	20	RCLK+	Video system output clock+	LVDS	C	Video data clock LVDS serial differential clock+output 0.3Vac; Bias 1.25Vdc	Video data clock LVDS serial differential clock+output 0.3Vac; Bias 1.25Vdc	0	0	(	0	MAIN→LVDS
	21	RCLK-	Video system output clock-	LVDS	C	Video data clock LVDS serial differential clock- output 0.3Vac; Bias 1.25Vdc	Video data clock LVDS serial differential clock- output 0.3Vac; Bias 1.25Vdc	O	0	(	0	MAIN→LVDS
	22 23	GND RC+	GND Video system output C+	LVDS LVDS	(	Video data LVDS	Video data LVDS serial differential C+ output 0.3Vac: Bias 1.25Vdc	Q.	0		0 0	- MAIN→LVDS
	24	RC-	Video system output C-	LVDS	C	Video data LVDS serial differential	Video data LVDS serial differential C- output 0.3Vac: Bias 1.25Vdc	O	0	(	0 -	MAIN→LVDS
	25	RB+	Video system output B+	LVDS	C		Video data LVDS serial differential B+ output 0.3Vac: Bias 1.25Vdc	0	0	(	0	MAIN→LVDS
	26	RB-	Video system output B-	LVDS	C	Video data LVDS serial differential B- output 0Vac: Bias 1.4Vdc	Video data LVDS serial differential B- output 0.3Vac: Bias 1.25Vdc	Q	0	(	0	MAIN→LVDS
	27	RA+	Video system output A+	LVDS	C	Video data LVDS serial differential A+ output 0Vac: Bias 1.1Vdc	Video data LVDS serial differential A+ output 0.3Vac: Bias 1.25Vdc	0	0	(	0	MAIN→LVDS
	28	RA-	Video system output A-	LVDS	C	Video data LVDS serial differential A- output 0Vac: Bias 1.4Vdc	Video data LVDS serial differential A- output 0.3Vac: Bias 1.25Vdc	O	o		0	MAIN→LVDS
	29 30	GND GND	GND GND	LVDS LVDS	(				0		0 0	
450	31	GND GND	GND	LVDS MAIN	(	i (	0	0	0	(	0 0	-
AD 2 CN8502	2	GND	GND	MAIN	(	) (	0	0	0	(	0 0	-
	3	P_ST_B	Connecting detection (PDP →MAIN)	MAIN		) (	0	0	0	(	0	LVDS→MAIN
	4	MR_ST_B	Connecting detection (MAIN→PDP)	MAIN	0	(	0	0	0	(	0	MAIN→LVDS
	5	NC MR_RXD		MAIN MAIN	C	when no data are	Clock signal (3.3Vac) when data are received; 3.3Vdc when no data are	3.3	3.3	3.0	3	- LVDS→MAIN
	7	V+3V_D	3.3V power supply for the	MAIN		received.	received.	0	0		0	-
	8	AC_DET_B	AC power detection from	MAIN					3.3		-	LVDS→MAIN
	9	NC	power supply Non-connection termial	MAIN								
	10	REQ	UART send request from PDP module	MAIN		3.3Vdc when riquest signal is received; 0Vdc when no riquest signal is received.	3.3Vdc when riquest signal is received; 0Vdc when no riquest signal is received.	0	0		0	LVDS→MAIN
	12	MR_TXD	UART data (MAIN→PDP)	MAIN	C	Clock signal (3.3Vac) when data are received; 3.3Vdc when no data are received.	Clock signal (3.3Vac) when data are received; 3.3Vdc when no data are received.	3.3	3.3	3.0		MAIN→LVDS
	13 14	NC STB_MUTE	Non-connection termial Stand by power control	MAIN MAIN		) (		4.7	4.7		0 -	- MAIN→LVDS
		NC NC	signal	MAIN				7./	7.7			
	16	VIS	reserve	MAIN	Ċ			0	0		0 0	MAIN→LVDS
	17 18	NC FIELD	Advanced cinema control	MAIN MAIN		) (	0	0	0	(	0 0	- MAIN→LVDS
	19	GND	signal	MAIN							0 0	- WAIN 72400
AD2	20	GND GND	GND GND	MAIN LVDS	0	) (	0	0	0	(	0 0	-
CN102	2	P ST B	No use	LVDS	(			0		(	0 0	
	3 4	NC V+3V_D	3.3V power supply for the	LVDS LVDS		3.0	3.3	0	0		0	- :
	5	NC NC	test jig  Non-connection termial	LVDS	+						1	-
		NC		LVDS								

F

Α

В

С

D

Е

68 PDP-507CMX 3

					AC power ON			except for case wh	nwn units are indiv	idually indicated)	AC Power OFF	
Name	Pin No.	Pin name	FuNon-connection	n termialtion	(Power coad connected to the wal outlet)	MAIN POV  No signal	VER "ON"★ With signal	Power management *	Standby ★★★	Main power OFF ★★	(Power ord pulled out of the wall outlet	Signal direction (DR : Data Relay)
	8	NC		LVDS				-				
	9 10	NC GND	Non-connection termial GND	LVDS LVDS		) (	0	0	- 0	(	0 0	
	11	GND	GND	LVDS	(	) (	0	0	0	(	0	
	12	THEATER	Advanced cinema control signal	LVDS	(				0			MAIN→LVDS
	13	VIS STB MUTE	No use No use	LVDS			0	4.7	0 4.7	(		
	15	TXD		LVDS		Clock signal	Clock signal	3.3	3.3	3.3		MAIN→LVDS
						(3.3Vac) when data are	(3.3Vac) when data are					
						received; 3.3Vdc	received; 3.3Vdc					
						when no data are received.	when no data are received.					
	16	REQ_MD	UART send request from	LVDS	ļ ,	3.3Vdc when	3.3Vdc when	0	0	(	n .	IVDC MAIN
	16	NEQ_WD	PDP module	LVDS	'	riquest signal is	riquest signal is	0	U		1	LVDS→MAIN
						received; 0Vdc when no riquest	received; 0Vdc when no riquest					
						signal is	signal is					
	17	AC_OFF	AC power detection from	LVDS	(	received.	received. 3.3	3.3	3.3	3.3	3	LVDS→MAIN
	18	RXD	power supply UART data (PDP→MAIN)	LVDS	+	Clock signal	Clock signal	3.3	3.3	3.3		LVDS→MAIN
						(3.3Vac) when data are	(3.3Vac) when data are					
						received; 3.3Vdc	received; 3.3Vdc					
						when no data are received.	when no data are received.					
	- 10	LID OT D		11/0.0	ļ.,							
	19 20	MR ST B GND	No use GND	LVDS	(				0	(		<del></del>
AD3	1	GND	GND		(	) (	0	0	0	(	0	-
V103	2	P_REQ_MD	UART send request from PDP module		1	3.3Vdc when riquest signal is	3.3Vdc when riquest signal is	0	0	(	-	PDP→LVDS
						received; 0Vdc when no riquest	received; 0Vdc when no riquest					
						signal is	signal is					
	3	P_RXD_MD	UART data (PDP→MAIN)		1	received. Clock signal	received. Clock signal	3.3	3.3	3.3		PDP→LVDS
			Orani data (i bi mirin)			(3.3Vac) when	(3.3Vac) when	0.0	0.0	0.0		151 2150
						data are received; 3.3Vdc	data are received; 3.3Vdc					
						when no data are received.	when no data are received.					
	<u> </u>	D TVD 110	L		1							
	4	P_TXD_MD	UART data (MAIN→PDP)		,	Clock signal (3.3Vac) when	Clock signal (3.3Vac) when	3.3	3.3	3.3	-	LVDS→PDP
						data are received; 3.3Vdc	data are					
						when no data are	when no data are					
						received.	received.					
	5	P_AC_OFF	AC power detection from		(	3.3	3.3	3.3	3.3	3.3	3	PDP→LVDS
	6	NC	power supply Non-connection termial					-				
	- 7 - 8	GND PARA_B0	GND Digital video output signal		(				0	(		- LVDS→PDP
			B[0]								-	
	9	PARA_B1	Digital video output signal B[1]			) (	3.3Vac	0	0	(	0	LVDS→PDP
	10	PARA_B2	Digital video output signal B[2]		(	) (	3.3Vac	0	0	C	0	LVDS→PDP
	11	PARA_B3	Digital video output signal			) C	3.3Vac	0	0	(	0	LVDS→PDP
	12	PARA_B4	B[3] Digital video output signal			) (	3.3Vac	0	0	(	1	LVDS→PDP
			B[4]									
	13	PARA_B5	Digital video output signal B[5]		(				0			LVDS→PDP
	14	PARA_B6	Digital video output signal B[6]			) C	3.3Vac	0	0	C	0	LVDS→PDP
	15	PARA_B7	Digital video output signal		(	) С	3.3Vac	0	0	(	0	LVDS→PDP
	16	PARA_B8	B[7] Digital video output signal		(	) (	3.3Vac	0	0	(	0	LVDS→PDP
	17	PARA_B9	B[8] Digital video output signal		(	) (	3.3Vac	0	0	(	2	LVDS→PDP
			B[9]									LVD3-FDF
	18 19	GND PARA_G0	GND Digital video output signal		(				0			- LVDS→PDP
			G[0]								-	
	20	PARA_G1	Digital video output signal G[1]						0			LVDS→PDP
	21	PARA_G2	Digital video output signal G[2]			) (	3.3Vac	0	0	(		LVDS→PDP
	22	PARA_G3	Digital video output signal		(	) C	3.3Vac	0	0	(	o l	LVDS→PDP
	23	PARA_G4	G[3] Digital video output signal			) (	3.3Vac	0	0	(	0	LVDS→PDP
	24	PARA_G5	G[4] Digital video output signal						0			LVDS→PDP
			[G[5]								-	
	25	PARA_G6	Digital video output signal G[6]		(				0	(		LVDS→PDP
	26	PARA_G7	Digital video output signal		(	) (	3.3Vac	0	0	(	0	LVDS→PDP
	27	PARA_G8	Digital video output signal		(	) (	3.3Vac	0	0	(	0	LVDS→PDP
	28	PARA_G9	G[8] Digital video output signal						0			LVDS→PDP
			G[9]									2.30 5.
	29 30	GND PARA_R0	GND Digital video output signal		(	) (			0	(	Ď I	- LVDS→PDP
	31	PARA_R1	R[0] Digital video output signal						0			LVDS→PDP
			R[1]									
	32	PARA_R2	Digital video output signal R[2]		(				0			LVDS→PDP
	33	PARA_R3	Digital video output signal R[3]			) (	3.3Vac	0	0	(	]	LVDS→PDP
	34	PARA_R4	Digital video output signal		(	0	3.3Vac	0	0	(	o	LVDS→PDP
	35	PARA_R5	R[4] Digital video output signal			) (	3.3Vac	0	0	(	-	LVDS→PDP
	36	PARA_R6	R[5] Digital video output signal						0		-	
			R[6]									LVDS→PDP
	37	PARA_R7	Digital video output signal R[7]			) C	3.3Vac	0	0	(		LVDS→PDP
	38	PARA_R8	Digital video output signal		(	) (	3.3Vac	0	0	(	0	LVDS→PDP
	39	PARA_R9	R[8] Digital video output signal			) (	3.3Vac	0	0	(	-	LVDS→PDP
	40		R[9]						0	(		2.30 15.
	41	GND GND	GND			) (	0	0	0	(	0	
	42	P_CLK	Clock signal output		(	3.3Vac	3.3Vac	0	0	(		LVDS→PDP
	43	GND PARA_DE	GND DE signal output		(		0 3.3Vac		0	(	0	- LVDS→PDP
	45	PARA_HD	HD signal output						0			LVDS→PDP
	46	PARA_VD	VD signal output		(				0	(		LVDS→PDP
	47	P_THEATER	Advanced cinema control signal		(	) (	0	0	0	(	0	LVDS→PDP
	48	P_INP_MUTE	Mute control signal for			) (	0	0	0	(	n i	PDP→LVDS

В

С

D

Ε

5

5

PDP-507CMX

1 2 3 4

Name	Pin No.	Pin name	FuNon-connection	n termialtion	AC power ON (Power coad connected to the wal outlet)  ***	MAIN POV	Numerical unit:Vdc VER "ON"★ With signal	Power management	Standby	Main power OFF **	AC Power OFF (Power cord pulled out of the wall outlet	Signal direction (DR : Data Relay)
	49	V+3V_UCOM2	3.3V power supply for module microcomputer		3.5	3 3.0	3.3	3.3	3.3	3.:	3 .	PDP→LVDS
AD4	50	GND GND	GND GND		(	0 (	) (	0			0 0	-
CN104	2	DIGI_3V_IN	3.3V power supply for module microcomputer		3.3					3.		PDP→LVDS
		MASK1	No use		(						0 0	
	4 5	MASK0 MAX PLUS21	No use No use		(	) (	) (	0	0		0 0	
	7	MAX PLUS20 MAX PLUS11	No use No use		(		) (	0	0		0 0	
	- 8	MAX PLUS10 P STATUS	No use No use		(	) (	) (	) C	0		0 0	- :
	10	P POWER DITHER	No use		(		) (	) C	0	(	0 0	
	12	P MSEL	No use model select terminal		(	0 (	) C	C	0	(	0 0	-
	13 14	LED B	No use No use		0						0 0	
	15 16	GND GND	GND GND		(						0 0	
	17	GND	GND		(	) (	) (	) C	0		0 0	
	18	D+3_3V_2	3.3V power supply for LVDS Receiver		(							PDP→LVDS
	19	D+3_3V_2	3.3V power supply for LVDS Receiver		(						0 -	PDP→LVDS
	20	D+3_3V_2	3.3V power supply for LVDS Receiver		(						0 .	PDP→LVDS
CN106	1	GND	Signlal GND for LVDS cable		0	) (	) (	0	0	(	0 0	-
	2	GND	Signlal GND for LVDS cable		(	) (	) (	C	0	(	0 0	•
	3	GND	Signlal GND for LVDS cable		(	) (	) (	C	0	(	0 0	-
LD	1	REMIN1	Infrared remote control data		(	0 Clock signal	Clock signal	Clock signal	Clock signal	-	0 0	LED→PWR
CN2602 CN2101						(5Vac) when data are received; 5Vdc when no data are received.	are received; 5Vdc when no data are received.	are received; 5Vdc when no data are received.	(5Vac) when data are received; 5Vdc when no data are received.			
	2	LEDCTL1	Standby red LED control		(	0 (	) (	3.3	3.3	(	0 0	PWR→LED
	3	LEDCTL2	POWER ON green LED control		(	3.0	3.3	С		-	0 0	PWR→LED
	4 5	GND M+5V	GND 5V supply for		(	) ( ) 5					0 0	- PWR→LED
SW			nicrocomputer								0 0	
SW N9011	1	VDDM3			'	3.0	3.3	3.3	3.3	(	0	MAIN→KEY
CN2201	2	KEY	Key input detection		C	0.7~2.8Vdc When key inputs are enterd; 3.3Vdc when no key inputs are enterd.	are enterd;	0.7~2.8Vdc When key inputs are enterd; 3.3Vdc when no key inputs are enterd.	0.7~2.8Vdc When key inputs are enterd; 3.3Vdc when no key inputs are enterd.	(	0	KEY→MAIN
PA	3	GND S+12	GND 12V power supply audio	MAIN	(						0 0	- POWER→AUDIO
N3002	2	S+12	12V power supply audio	MAIN			12.5				0 0	POWER→AUDIO
	3	S+12	circuits 12V power supply audio	MAIN	(						0 0	POWER→AUDIO
	4	GND	circuits GND	MAIN							0 0	TOWERT ADDIO
	- 5	GND	GND	MAIN	(	) (	) C	0	0		0 0	- :
PA	6	GND S+12	GND 12V power supply audio	MAIN PSU	(						0 0	- POWER→AUDIO
	5	S+12	12V power supply audio	PSU		0 12.5	12.5	C	0	-	0 0	POWER→AUDIO
	4	S+12	circuits 12V power supply audio	PSU		12.5	12.5		0		0 0	POWER→AUDIO
	3	GND	circuits GND	PSU							0 0	
	2	GND	GND	PSU	(	0 (	) C	C	0	(	0 0	
N9010 N2302	1	VCC_DOWN2	6.5V voltage surveillance	PSU	C		6.5V norma 3.3Vdc, 6.5V unusua	C			0 0 0 0	COMM SLOT I/F→MA
	2	V+6.5V	6.5V power supply for analog circuits		(	6.5	6.5	C	0	(	0 0	MAIN→COMM SLOT I
	3 4	NC CSL_ST1	Non-connection termial			3.3	3.3					
	5	NC REMIN	SLOT DETECT  Non-connection termial  Infrared remote control data			Clock signal	Clock signal	Clock signal	Clock signal (5Vac) when data are received; 5Vdc when no data are	(	5 O	COMM SLOT I/F→MA  COMM SLOT I/F→MA
						received.	received.	received.	received.			
		LEDCTL1 GND	LED(RED) GND		(						0 0	MAIN→COMM SLOT I
	9	LEDCTL2	LED(GREEN)							(	0 0	MAIN→COMM SLOT I
	11	CYOBL2 RLS	Non-connection termial Optical sensor		C	0 Illumination 100lx 1Vdc, Illumination 200lx 2Vdc	100lx 1Vdc, Illumination	100lx 1Vdc, Illumination	100lx 1Vdc, Illumination		O	COMM SLOT I/F→MA
	12	VDDM3.3V	Non-connection termial 3.3V power supply for	<u> </u>		3.5	3.3	3.3	3.3	(	0 0	MAIN→COMM SLOT
	14	CSL_ST2	microcomputer SLOT TYPE DETECT		(						0 0	COMM SLOT I/F→MA
	15	VDDM5	5V power supply for		(						0 0	MAIN→COMM SLOT
	16	VDDM3.3V	3.3V power supply for		(	3.5	3.3	3.3	3.3	(	0 0	MAIN→COMM SLOT
	17	4G/5G	microcomputer Generation information		(						0 0	COMM SLOT I/F→MA
	18	GND TXD2	GND PLE LINK		(	Clock signal used duaring data transmission (5Vac), 5Vdc	duaring data transmission (5Vac), 5Vdc	clock signal used duaring data transmission (5Vac), 5Vdc when no data are			0 0	- MAIN→COMM SLOT
	20	VDDM5	5V power supply for		(	5	5	5	5	(	0 0	MAIN→COMM SLOT I
	21	PLE_CTL2	PLE LINK process select		(	High output 3.3Vdc, Low output 0Vdc	High output 3.3Vdc, Low output 0Vdc	High output 3.3Vdc, Low output 0Vdc	0	(	0 0	MAIN→COMM SLOT

F

Е

Α

В

С

6	7	8

Name	Pin No.	Pin name	FuNon-connection te	AC power of (Power co	ON MAIN PO	(Numerical unit:Vdi WER "ON"★	Power	whwn units are indiv	Main power	AC Power OFF (Power cord	Signal direction
			Funon-connection te	rmialtion connected to wal outle  ★★	the t) No signal	With signal	management ★★★	Standby ★★★	OFF ★★	pulled out of the wall outlet ★★	(DR : Data Relay)
	23	RXD2	PLE LINK		0 Clock signal	Clock signal a (5Vac) when data	Clock signal	Clock signal	(	0 0	COMM SLOT I/F→MAIN
					are received; 5Vdc when no	are received; 5Vdc when no	are received; 5Vdc when no	are received; 5Vdc when no			
					data are received.	data are received.	data are received.	data are received.			
	24	FIRST_RXD	DVD sizes!			received.  I clock signal used			,	0 0	COMM SLOT I/F→MAIN
	24	TINOT_TAB	RXD signal (to V-CARD≈fs		duaring data	duaring data	duaring data	duaring data	,	2	COMM SLOT I/F→MAIN
			micro_COM only)		recieved (3.3Vac), 3.3Vdc	recieved (3.3Vac), 3.3Vdc	recieved (3.3Vac), 3.3Vdc	recieved (3.3Vac), 3.3Vdc			
					when no data an received.	when no data are received.	when no data are received.	when no data are received.			
	25	PLE_CTL	PLE LINK process select		O High output 3.3Vdc, Low	High output 3.3Vdc, Low	High output 3.3Vdc, Low	0	(	0	MAIN→COMM SLOT I/F
					output 0Vdc	output 0Vdc	output 0Vdc				
	26	GET_UART	U-ART process select		0 3.3Vdc: : 232				(	0	MAIN→COMM SLOT I/F
					PDP、0V	PDP、0V:	PDP、0V:				
					VIDEO	VIDEO	VIDEC	VIDEO			
					CARD, PDP¢ VIDEO CARI		CARD, PDP				
	27	STL_LINK	The signal for still picture detect	tion linkage	0 STL_LINK OFF	STL_LINK OFF	STL_LINK OFF	STL_LINK OFF	(	0 0	MAIN→COMM SLOT I/F
		_	operation		signal(3.3Vdc), STL_LINK ON	signal(3.3Vdc), STL_LINK ON	signal(3.3Vdc), STL_LINK ON	signal(3.3Vdc), STL_LINK ON			
					signal(0Vdc)	signal(0Vdc)	signal(0Vdc)	signal(0Vdc)			
	28	INT_EXT	U-ART in/out Select		0 0V : 232				(	0 0	MAIN→COMM SLOT I/F
					connectore VIDE0						
					CARD,	CARD	CARD	CARD、			
					VIDEO CARI	VIDEO CARE	VIDEO CARE	3.3Vdc ; PDP⇔ VIDEO CARD			
	29	CB_MUTE	COMBINATION MUTE signal		0 MUTE OFF signal(3.3Vdc),	MUTE OFF signal(3.3Vdc),	MUTE OFF signal(3.3Vdc),	MUTE OFF signal(3.3Vdc),	(	0	MAIN→COMM SLOT I/F
			- J		MUTE ON signal(0Vdc)	MUTE ON signal(0Vdc)	MUTE ON signal(0Vdc)	MUTE ON signal(0Vdc)			
					aigi iai(u vac)	signal(UVUC)	orginal(UVUC)	orginal(UVuC)			
	30	RXD_GU	RXD signal(by		0 clock signal used	d clock signal used	clock signal used	clock signal used	(	0 0	COMM SLOT I/F→MAIN
			GET_UART)		duaring data recieved	duaring data recieved	duaring data recieved	duaring data recieved			
						(3.3Vac), 3.3Vdc when no data are					
					received.	received.	received.	received.			
	31	KEY	KEY SCAN Signal		0 clock signal used	d clock signal used	clock signal used	clock signal used	(	0 0	MAIN→COMM SLOT I/F
	-		KET OOAN Olghai		duaring data recieved	duaring data recieved	duaring data recieved	duaring data recieved			MAIN TOOMWOLOT III
					(3.3Vac), 3.3Vdc	(3.3Vac), 3.3Vdc when no data are	(3.3Vac), 3.3Vdc	(3.3Vac), 3.3Vdc			
					received.	received.	received.	received.			
	20	TXD_GU	TVD 0: 1/1		O Clock -i	d Clock si===! ··	Clock sizzzi	Clock size - 1 · · ·		, ,	
	32	IVD_G0	TXD Signal(by GET_UART)		during data	during data	during data	Clock signal used during data	(	. O	MAIN→COMM SLOT I/F
					transmission(3.3 Vac), 3.3Vdc	Vac), 3.3Vdc	transmission(3.3 Vac), 3.3Vdc	Vac), 3.3Vdc			
					when no data an transmitted	when no data are transmitted	when no data are transmitted	when no data are transmitted			
	33	RXD	RXD Signal		0 clock signal used	d clock signal used	clock signal used	clock signal used	(	0 0	COMM SLOT I/F→MAIN
			(to PD's micro_COM)		duaring data recieved	duaring data recieved	duaring data recieved	duaring data recieved			
					(3.3Vac), 3.3Vdc	(3.3Vac), 3.3Vdc when no data are	(3.3Vac), 3.3Vdc	(3.3Vac), 3.3Vdc			
					received.	received.	received.	received.			
	34	GPC5	COMM CARD-VIDEO		0	0 (	) (	0 0		0 0	MAINOMM SLOT I/E
			communication line								MAIN←→OMM SLOT I/F
	35	TXD	TXD Signal (from PDP- fs micro_COM)		during data	during data	during data	Clock signal used during data	(	J 0	MAIN→COMM SLOT I/F
			/		transmission(3.3 Vac), 3.3Vdc	transmission(3.3	transmission(3.3	transmission(3.3 Vac), 3.3Vdc			
						when no data are transmitted					
							1				
	36	GPC4	COMM CARD-VIDEO CARD	Evolucivo	0	0 (	,	0	,	0 0	MAIN←→OMM SLOT I/F
			communication line	_nortial¥6							INDIA
	37 38	GND GPC3	GND COMM CARD-VIDEO CARD	Exclusive		0 0		0 0		0 0	MAIN←→OMM SLOT I/F
	39	GPC1	communication line COMM CARD-VIDEO CARD	Exclusive	0	0 (	) (	0	(	0 0	MAIN←→OMM SLOT I/F
	40	GPC2	communication line COMM CARD-VIDEO CARD			0 (		0 0		0 0	MAIN←→OMM SLOT I/F
2303	1		communication line	LAGIUSIVE		,			,		INIAIIW—→UMINI SEUT I/F
2004	2	NC IRSW	Non-connection termial IR signal process select		0	5 5	5 5	5 5	(	0 0	COMM CARD→COMM SLOT I
	3	IR_COMM_OUT	Infrared remote control data o	utout(to PDP' s	0 Clock signal	Clock signal	Clock signal	Clock signal	(	0 0	COMM CARD→COMM SLOT I.
			micro_COM)	. , ,	(5Vac) when data are received:	a (5Vac) when data are received:	(5Vac) when data are received:	(5Vac) when data are received;		Ĭ	James James Gowin GEOT I
					5Vdc when no data are	5Vdc when no data are	5Vdc when no data are	5Vdc when no data are			
					received.	received.	received.	received.			
	4	IR_COMM_IN	Infrared remote control data in	unut(from IR)	O clock signal uses	l clock signal used	clock signal used	clack signal used	,	0 0	COMM SLOT I/F→COMM CAR
	-	CONNIVI_IIN	mared remote control data. If	ipat(iiUIII III)	duaring data	duaring data	duaring data	duaring data transmission	,	. "	GOIVINI GEOT I/F→GOIVINI CAH
					transmission (5Vac), 5Vdc	transmission (5Vac), 5Vdc	transmission (5Vac), 5Vdc	(5Vac), 5Vdc			
					when no data are transmitted.	when no data are transmitted.	when no data are transmitted.	when no data are transmitted.			
	5	GND	GND		0	0 (	) (	0 0			
	6 7	GND GND	GND GND			0 (				0 0	
	8	CYOBI3	Non-connection termial								
		CYOBI2	Non-connection termial SLOT TYPE DETECT	+	0 3.	3 3.0	3 3.0		(	0 0	COMM CARD→COMM SLOT I/
	9 10	CSL_ST2									
		CSL_ST2 CSL_ST1 GND	SLOT DETECT GND		0 3.	3 3.0				0 0	COMM CARD→COMM SLOT I/

Ε

В

С

PDP-507CMX

7

**=** 8

5

1 2 3 4

Name	Pin No.	Pin name	FuNon-connection termialt	AC power ON (Power coad connected to the wal outlet)		Numerical unit:Vdo VER "ON"★ With signal	Power management	vhwn units are indiv Standby ★★★	Main power OFF	AC Power OFF (Power cord pulled out of the wall outlet	Signal direction (DR : Data Relay)
CN2303 CN2004	16	FIRST_RXD	RXD signal (to V-CARD-rfs micro_COM only)	C	duaring data recieved (3.3Vac), 3.3Vdc	duaring data recieved (3.3Vac), 3.3Vdc	duaring data recieved (3.3Vac), 3.3Vdc	clock signal used duaring data recieved (3.3Vac), 3.3Vdc when no data are received.	(	0	COMM CARD→COMM SLOT I/F
	17	GET_UART	U-ART PROCESS SELECT	C		クタ⇔PDP、0V: 232Cコネクタ⇔ VIDEC CARD、PDP⇔	クタ⇔PDP、0V: 232C⊒ネクタ⇔ VIDEO CARD、PDP⇔	VIDEO CARD、PDP⇔	(	0	COMM SLOT I/F→COMM CARD
	18	INT_EXT	U-ART in/out Select	C	connector⇔ VIDEO CARD,	connector⇔ VIDEC CARD、 3.3Vdc ; PDP⇔	connector⇔ VIDEO CARD、 3.3Vdc : PDP⇔	connector⇔	(	) O	COMM SLOT I/F→COMM CARD
	19	RXD_CARD	RXD signal(by GET_UART)	C	duaring data recieved (3.3Vac), 3.3Vdc	duaring data recieved (3.3Vac), 3.3Vdc	recieved (3.3Vac), 3.3Vdc	duaring data recieved	(	) O	COMM CARD→COMM SLOT I/F
	20	TXD_CARD	TXD signal(by GET_UART)	C	during data transmission(3.3 Vac), 3.3Vdc when no data are	during data transmission(3.3 Vac), 3.3Vdc	during data transmission(3.3	Vac), 3.3Vdc	(	) O	COMM SLOT I/F→COMM CARD
	21	GPC5	COMM CARD-VIDEO CARD Exclus	sive C	C	(	) C	0	(	) 0	COMM SLOT I/F←→COMM CARD
	22	GPC4	communication line COMM CARD-VIDEO CARD Exclusion	sive C	C	(	) C	0	(	) 0	COMM SLOT I/F←→COMM CARD
	23	GPC3	communication line COMM CARD-VIDEO CARD Exclusion		C	(	) C	0	(	0	COMM SLOT I/F←→COMM CARD
	24	GPC2	communication line COMM CARD-VIDEO CARD Exclus	sive 0	C	(	) C	0	(	) 0	COMM SLOT I/F←→COMM CARD
	25	GPC1	communication line COMM CARD-VIDEO CARD Exclusion	sive 0	C	(	) C	0	(	) 0	COMM SLOT I/F←→COMM CARD
	101	NC	communication line Non-connection termial								
	102	GND GND	GND GND	C						0	:
	104	GND TXD_PDP	GND TXD signal(from PDP≈fs	C	C	(	0			0	COMM SLOT I/F→COMM CARD
			micro_COM)		during data transmission(3.3 Vac), 3.3Vdc	during data transmission(3.3 Vac), 3.3Vdc	during data transmission(3.3 Vac), 3.3Vdc	during data			
		RXD_PDP	RXD signal(to PDP'smicro_COM)		duaring data recieved (3.3Vac), 3.3Vdc when no data are received.	duaring data recieved (3.3Vac), 3.3Vdc when no data are received.	duaring data recieved (3.3Vac), 3.3Vdc when no data are received.	when no data are received.	(		COMM CARD→COMM SLOT I/F
	107	KEY_COMM_IN	KEY SCAN signal	C	during data transmission(3.3 Vac), 3.3Vdc	during data transmission(3.3 Vac), 3.3Vdc	Clock signal used during data transmission(3.3 Vac), 3.3Vdc when no data are transmitted	Vac), 3.3Vdc	(	) O	COMM SLOT I/F→COMM CARD
		CB_MUTE	COMBINATION MUTE signal		MUTE OFF signal(3.3Vdc), MUTE ON signal(0Vdc)	MUTE OFF signal(3.3Vdc), MUTE ON signal(0Vdc)	MUTE OFF signal(3.3Vdc), MUTE ON signal(0Vdc)	MUTE OFF signal(3.3Vdc), MUTE ON signal(0Vdc)	(	0	COMM SLOT I/F→COMM CARD
		STL_LINK	The signal for still picture detection lir operation	okage C	signal(3.3Vdc),	STL_LINK OFF signal(3.3Vdc), STL_LINK ON signal(0Vdc)	STL_LINK OFF signal(3.3Vdc), STL_LINK ON signal(0Vdc)	STL_LINK OFF signal(3.3Vdc), STL_LINK ON signal(0Vdc)	(	).	COMM SLOT I/F←→COMM CARD
		GND GND	GND GND	0		(	0			0	-
	114	V+6.5V	6.5V power supply for analog circuits	C						0	COMM SLOT I/F→COMM CARD
	115	V+6.5V	6.5V power supply for analog circuits	C					(		COMM SLOT I/F→COMM CARD
		GND GND	GND GND	0	C		) C	0	(		
	118	VDDM3.3V	3.3V power supply for microcomputer	O.						0	COMM SLOT I/F→COMM CARD
	119	VDDM3.3V	3.3V power supply for microcomputer	0						0	COMM SLOT I/F→COMM CARD
	120	VDDM5V APL_CTL1	5V power supply for microcomputer	0				5V 0		0	COMM SLOT I/F→COMM CARD
			PLE LINK process select		3.3Vdc, Low output 0Vdc	High output 3.3Vdc, Low output 0Vdc	High output 3.3Vdc, Low output 0Vdc				COMM SLOT I/F→COMM CARD
		APL_RXD	PLE LINK	C	Clock signal (5Vac when data are received; 5Vdc when no data are received.	Clock signal (5Vac when data are received; 5Vdc when no data are received.		are received; 5Vdc when no data are received.	(		COMM CARD→COMM SLOT I/F
	123	APL_CTL2	PLE LINK process select		High output 3.3Vdc, Low output 0Vdc	High output 3.3Vdc, Low output 0Vdc	High output 3.3Vdc, Low output 0Vdc	0	(	) O	COMM SLOT I/F→COMM CARD

F

72

Α

В

С

D

Ε

1

PDP-507CMX

**a** 2 **a** 3 **b** 4

					AC power ON		Numerical unit:Vdo VER "ON"★	; except for case w	vhwn units are indivi	dually indicated)	AC Power OFF	
Name	Pin No.	Pin name	FuNon-connection	termialtion	(Power coad connected to the wal outlet)		With signal	Power management ★★★	Standby ★★★	Main power OFF ★★	(Power cord pulled out of the wall outlet	Signal direction (DR : Data Relay)
	124	APL_TXD	PLE LINK			0 clock signal used duaring data	clock signal used duaring data	clock signal used duaring data	clock signal used duaring data	(	0 0	COMM SLOT I/F→COMM CARD
						transmission (5Vac), 5Vdc when no data are	transmission (5Vac), 5Vdc	transmission (5Vac), 5Vdc when no data are	transmission (5Vac), 5Vdc when no data are transmitted.			
	125	SLT_Ve r	Generation information			0 0		0	0	(	0 0	COMM CARD→COMM SLOT I/F
N2301 N2401	1	REMIN	Infrared remote control data			Clock signal (4.4Vac) when data are received; 4.4Vdc when no data are received.	Clock signal (4.4Vac) when data are received; 4.4Vdc when no data are received.		Clock signal (4.4Vac) when data are received; 4.4Vdc when no data are received.	(	0	LED2→COMM SLOT I/F
	2	LEDCTL1	LED(RED)			0 0					0	COMM SLOT I/F→LED2
	3 4	LEDCTL2 GND	LED(GREEN) GND			0 5					0 0	COMM SLOT I/F→LED2
	5	RLS	Optical sensor			0 Illumination 100lx 1Vdc, Illumination 200lx 2Vdc	Illumination 100lx 1Vdc. Illumination	Illumination 100lx 1Vdc. Illumination	Illumination 100lx 1Vdc, Illumination	(		LED2→COMM SLOT I/F
	6	VDDM3.3V	3.3V power supply for			3.3				(	0 0	COMM SLOT I/F→LED2
	7	GND	microcomputer GND			0 0					0 0	
	8	VDDM5V	5V power supply for microcomputer VD for ANALOG SYNC			0 5				(		COMM SLOT I/F→LED2
AV CN1005	1	SLOT_VD		MAIN		signal of SLOT HIGH MIN 2.4V, LOW MAX	Synchronized signal of SLOT HIGH MIN 2.4V, LOW MAX 0.9V	0	Ö.	(	0	VIDEO SLOT I/F→MAIN
	3	GND GND		MAIN MAIN		Di C					0 0	· ·
	4	AUDIO_L	AUDIO L ch	MAIN			Audio signal	0		(		VIDEO SLOT I/F→MAIN
	5	SLOT_HD	HD for ANALOG SYNC	MAIN			of SLOT Synchronized signal of SLOT HIGH MIN 2.4V, LOW MAX 0.9V	0	Ď.	(	<b>Q</b>	VIDEO SLOT I/F→MAIN
	6 7	GND GND	GND GND	MAIN MAIN		D C					0 0	•
	8	AUDIO_R	AUDIO R ch	MAIN			Audio signal	0		(		VIDEO SLOT I/F→MAIN
	9	R(R-Y)	RED(Cr or Pr) for ANALOG	MAIN		0 0		0	0	(	0 0	VIDEO SLOT I/F→MAIN
	10	GND	GND	MAIN		0 0	0.7Vp-p		0	(	0 0	
	11	GND NC		MAIN MAIN		0 0		0	0		0	
	13	B(B-Y)	BLUE(Cb or Pb) for ANALOG	MAIN		o c	0.7Vp-p				0 0	VIDEO SLOT I/F→MAIN
	15 16	GND NC	GND	MAIN MAIN		0 0				(		
	17	Y(G)ON_SYNC	GREEN(Y) for ANALOG(on Sync)	MAIN		o c	0.7∼1.0Vp-p				0	VIDEO SLOT I/F→MAIN
	18 19	GND GND		MAIN MAIN		D C					0 0	· · · · · ·
AV CN5004	19	VD_SA	Non-connection termial VD for ANALOG SYNC	MAIN VIDEO SLOT I/F			Synchronized signal of SLOT HIGH MIN 2.4V, LOW MAX	0	O	(	- O	- VIDEO SLOT I/F→MAIN
	20	GND	GND	VIDEO SLOT I/F		0 0	0.9V	0	0	(	0 0	
	17	GND AUDIO_L	GND	VIDEO SLOT I/F VIDEO SLOT I/F		0 0			0	(	0 0	- VIDEO SLOT I/F→MAIN
	15	HD_SA	HD for ANALOG SYNC	VIDEO SLOT I/F			Synchronized signal of SLOT HIGH MIN 2.4V, LOW MAX 0.9V	0	0	(	O	VIDEO SLOT I/F→MAIN
	16	GND	GND	VIDEO SLOT I/F		0 0				(		
	13	AUDIO_R	AUDIO R ch	VIDEO SLOT I/F VIDEO SLOT I/F		0 0	Audio signal of SLOT	0			D 0 D 0	VIDEO SLOT I/F→MAIN
		R(R-Y)	RED(Cr or Pr) for ANALOG			0 0	Video signa 0.7Vp-p				0	VIDEO SLOT I/F→MAIN
	12 9	GND GND	GND	VIDEO SLOT I/F VIDEO SLOT I/F		Di C					0 0	·
		NC B(B-Y)	Non-connection termial BLUE(Cb or Pb) for	VIDEO SLOT I/F VIDEO SLOT I/F		0 0			-		0 0	- VIDEO SLOT I/F→MAIN
			ANALOG				0.7Vp-p					VIDEO SEOT I/F-WAIN
	- 8 - 5	GND GND		VIDEO SLOT I/F VIDEO SLOT I/F		D C					0 0	
		NC Y(G)ON_SYNC	Non-connection termial GREEN(Y) for ANALOG(on Sync)	VIDEO SLOT I/F		D C	Video signa 0.7~1.0Vp-p		0		0 0	- VIDEO SLOT I/F→MAIN
	4	GND	GND	VIDEO SLOT I/F		0 0		0	0	(	0 0	
	1	GND NC	GND	VIDEO SLOT I/F VIDEO SLOT I/F		0 C	(	0	0	(	0	•
D3 CN5301		NC PNP_WR	Non-connection termial	MAIN MAIN		0 0					0 0	MAIN WEST OF STATE
J. 10001	3	VCC_DOWN1	EEPROM WRITE PROTECT VIDEO CARD voltage surveillance	MAIN		Norma 3.3Vdc, unusua	Norma 3.3Vdc, unusua	0	0	(		MAIN→VIDEO SLOT I/F VIDEO SLOT I/F→MAIN
	4 5	GND SCL5		MAIN MAIN		0Vdd 0 Clock signal used during data		0		(	0 0	- MAIN→VIDEO SLOT I/F

С D Ε O Clock signal used during data transmission(3.3 Vac), 3.3Vdc when no data are transmitted CO Clock signal used during data transmission(3.3 Vac), 3.3Vdc when no data are transmitted MAIN→VIDEO SLOT I/F F 73 PDP-507CMX 8

В

5

**2 3 4** 

Name	Pin No.	Pin name	FuNon-connection	n termialtion	AC power ON (Power coad connected to the	MAIN POV	/ER "ON"★	except for case w Power management	Standby	idually indicated) Main power OFF	AC Power OFF (Power cord pulled out of the	Signal direction
					wal outlet) ★★	No signal	With signal	***	***	**	wall outlet ★★	(DR : Data Relay)
D3 CN5301	6	SDA5	Data line of the I2C bus	MAIN		During data exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc	signal	0	0	(	0	MAIN→VIDEO SLOT I/F
	7	SCL_VS	Clock line of the I2C bus	MAIN	C	Clock signal used during data transmission(3.3	Clock signal used during data transmission(3.3 Vac), 3.3Vdc		0	(	) O	MAIN→VIDEO SLOT I/F
	8	SDA_VS	Data line of the I2C bus	MAIN	C	During data exchange: Clock signal (3.3Vac),datanot exchanged:	signal (3.3Vac),datanot exchanged:	0	0	(	0	MAIN→VIDEO SLOT I/F
	9	GND	GND	MAIN	(				0	(	0	
	10	IN4_DET	INPUT4 SIGNAL DETECT for AUTO POWER OFF	MAIN		signal is inputted. 0V、When INPUT4 signal	signal is inputted. 0V、When INPUT4 signal is not inputted,		0	(	g G	VIDEO SLOT I/F→MAIN
	11	SLOT_ST1	CARD TYPE SELECT	MAIN	C	When equipped with PDA-5003. 0V. When equipped with PDA-5004 0.36Vdc	0V. When equipped with PDA-5004	with PDA-5003. 0V、When equipped with PDA-5004	0V、When equipped with PDA-5004	(	0	VIDEO SLOT I/F→MAIN
	12	S_DIN_SEL	Digital INPUT SELECTOR	MAIN	C		ON 0V, SLOT digital OFF	ON 0V, SLOT digital OFF	ON 0V, SLOT digital OFF	(	o	MAIN→VIDEO SLOT I/F
	13	FNC1	FUNCTION LOGIC	MAIN	C	select 5Vdc,	select 5Vdc, INPUT4 select	select 5Vdc, INPUT4 select		(	0	MAIN→VIDEO SLOT I/F
	14	SLOT_ST2	CARD DETECT for OEM/PIONEER	MAIN	C	PIONEER CARD: .3Vdc, OEM CARD: 0V	OEM CARD:	CARD: .3Vdc. OEM CARD:	PIONEER CARD: .3Vdc, OEM CARD: 0V	(	0	VIDEO SLOT I/F→MAIN
	15	IR	Infrared remote control data	MAIN	C	Clock signal (4.4Vac) when data are received; 4.4Vdc when no data are received.	Clock signal (4.4Vac) when data are received; 4.4Vdc when no data are received.	(4.4Vac) when data are received; 4.4Vdc when no data are	Clock signal (4.4Vac) when data are received; 4.4Vdc when no data are received.	(	0	MAIN→VIDEO SLOT I/F
	16	FNC0	FUNCTION LOGIC	MAIN	C	select 5Vdc.	select 5Vdc. INPUT3 select	select 5Vdc. INPUT3 select		(	0	MAIN→VIDEO SLOT I/F
	17	G4G	3G4G DISCERMMENT	MAIN	C	with 3G CARD. 0V, When equipped with 4G	with 3G CARD. 0V, When equipped with 4G	When equipped with 3G CARD. 0V, When equipped with 4G CARD. 3.3Vdc	with 3G CARD. 0V, When equipped with 4G		0	VIDEO SLOT I/F→MAIN
	18	DSUBSW_DET	INPUT1⇔VIDEO CARD ANALOG OUT SELECT	MAIN		3.3Vdc : INPUT1 select, 0V : VIDEO CARD select	select, 0V : VIDEO CARD select	select、0V: VIDEO CARD select	select、0V: VIDEO CARD select			VIDEO SLOT I/F→MAIN
	20	VYOBI2 VYOBI1	NC RESERVE	MAIN MAIN MAIN				-	-			· VIDEO SLOT I/F⇔MAIN
	22	GND GPC5	GND VIDEO CARD⇔COMM	MAIN MAIN	(	i o	0	0	0	(	) 0	
	24	GPC2	CARD LINE  VIDEO CARD⇔COMM	MAIN	(	0	0	0	0	(	0	VIDEO SLOT I/F⇔MAIN
	25	GPC4	VIDEO CARD⇔COMM	MAIN	(	0	0	0	0	(	0	VIDEO SLOT I/F⇔MAIN
	26	GPC1	CARD LINE VIDEO CARD⇔COMM	MAIN	(	0	0	0	0	(	) 0	VIDEO SLOT I/F⇔MAIN
	27	GPC3	CARD LINE VIDEO CARD⇔COMM	MAIN	0	0	0	0	0	(	) 0	VIDEO SLOT I/F⇔MAIN
	28	HYOUJI_X	CARD LINE 2 SCREENS Permit/Prohibit	MAIN	C	Permit 0Vdc, Prohibit 3.3Vdc		Permit 0Vdc, Prohibit 3.3Vdc	Permit 0Vdc, Prohibit 3.3Vdc	(	) O	VIDEO SLOT I/F→MAIN
	29 30	GND IN5_HD	GND INPUT5 SYNC	MAIN MAIN	INPUT5 SYNC	0	INPUT5 SYNC	0 INPUT5 SYNC	INPUT5 SYNC	INPUT5 SYNC	INPUT5 SYNC	- VIDEO SLOT I/F→MAIN
	31	IN5_VD GND	INPUT5 SYNC	MAIN	INPUT5 SYNC	0		INPUT5 SYNC	INPUT5 SYNC		INPUT5 SYNC	VIDEO SLOT I/F→MAIN
	33	SOUND1	VIDEO CARD AUDIO SELECT	MAIN		INPUT4,5 Audio	INPUT4,5 Audio		0	(	0	MAIN→VIDEO SLOT I/F
	34	FNC2	VIDEO select	MAIN	(		0Vdc、INPUT4,5	INPUT3 select 0Vdc, INPUT4,5 select 3.3Vdc	0Vdc、INPUT4,5		0	MAIN→VIDEO SLOT I/F
	35	FNC3	VIDEO select	MAIN	C		0Vdc、INPUT3,5	INPUT4 select 0Vdc, INPUT3,5 select 3.3Vdc	0Vdc, INPUT3,5		0	MAIN→VIDEO SLOT I/F
	36	SOUND2	VIDEO CARD AUDIO SELECT	MAIN			select 3.4Vdc	select 3.4Vdc		(		MAIN→VIDEO SLOT I/F
	37	SD_SEL	DIGITAL SIGNAL FORMAT SELECT	MAIN	(	Port, No	Port, No VIDEO CARD	Port, No VIDEO CARD	Port, No VIDEO CARD		) O	VIDEO SLOT I/F→MAIN

F

Α

В

С

D

Ε

PDP-507CMX 3

6	7	8

5

			1		AC power ON (Power coad		Numericai unit:vdc /ER "ON"★		vhwn units are indivi		AC Power OFF (Power cord	Signal direction
Name	Pin No.	Pin name	FuNon-connectio	n termialtion	(Power coad connected to the wal outlet)	No signal	With signal	Power management ★★★	Standby ★★★	Main power OFF ★★	pulled out of the wall outlet	(DR : Data Relay)
	38	SLOT_ST3	CARD TYPE SELECT	MAIN	C	D A/D Input Port, No VIDEO CARD 3.3Vdc	Port, No VIDEO CARD	Port, No VIDEO CARD	Port, No VIDEO CARD	(	0	VIDEO SLOT I/F→MAIN
	39	RESETX1	RESET	MAIN	(	Release			RESET 0V, Release RESET 3.3Vdc	(	0	MAIN→VIDEO SLOT I/F
	40 41	GND INT_EXT	GND IF U / 232C SELECT	MAIN MAIN	(					(		- VIDEO SLOT I/F→MAIN
			IF 072320 SELECT		, in the second		CONNECTOR⇔ VIDEO CARD, 3.3Vdc : PDP⇔	CONNECTOR⇔ VIDEO CARD, 3.3Vdc : PDP⇔	CONNECTOR⇔ VIDEO CARD、	·		VIDEO SEOT IIIWAIN
	42	RXD_CARD	UART chosen by GET_UART	MAIN	(	clock signal used duaring data recieved (3.3Vac), 3.3Vdc	clock signal used duaring data recieved (3.3Vac), 3.3Vdc	clock signal used duaring data recieved (3.3Vac), 3.3Vdc	clock signal used duaring data recieved	(	0	MAIN→VIDEO SLOT I/F
	43	FIRST_RXD	RXD Direct to 232C	MAIN	(	clock signal used	clock signal used	clock signal used	clock signal used		) 0	MAIN→VIDEO SLOT I/F
			1360 S.1600 10 E02E0			duaring data recieved (3.3Vac), 3.3Vdc	duaring data recieved (3.3Vac), 3.3Vdc	duaring data recieved (3.3Vac), 3.3Vdc	duaring data recieved			
	44	TXD_CARD	UART chosen by GET_UART	MAIN	C	during data transmission(3.3 Vac), 3.3Vdc	during data transmission(3.3 Vac), 3.3Vdc when no data are	during data transmission(3.3 Vac), 3.3Vdc when no data are	Clock signal used during data transmission(3.3 Vac), 3.3Vdc when no data are transmitted	(	0	VIDEO SLOT I/F→MAIN
	45	GET_UART	U-ART PROCESS SELECT	MAIN	(	3.3Vdc: : 232C Connector⇔ PDP, 0V : 232C Connector⇔ VIDEO CARD, PDP⇔	Connector⇔ PDP、0V: 2320 Connector⇔ VIDEO	Connector⇔ PDP、0V: 2320 Connector⇔ VIDEO	Connector⇔ PDP、0V:232C Connector⇔ VIDEO	(	0	VIDEO SLOT I/F→MAIN
	46	GND	GND	MAIN	,	VIDEO CARD	VIDEO CARD	VIDEO CARD	VIDEO CARD		)	
	47	KEY	KEY SIGNAL	MAIN	(	clock signal used duaring data recieved (3.3Vac), 3.3Vdc when no data are received.	clock signal used duaring data recieved (3.3Vac), 3.3Vdc	clock signal used duaring data recieved (3.3Vac), 3.3Vdc	clock signal used duaring data recieved	(	-	MAIN→VIDEO SLOT I/F
	48	NC	Non-connection termial	MAIN								
	49 50	VDDM3.3V	Non-connection termial 3.3V supply for	MAIN MAIN	(	3.3	3.3	3.3	3.3	(	0	- MAIN→VIDEO SLOT I/F
D3	50	NC	Mon-connection termial	VIDEO SLOT I/F								
CN4004	49	PNP_WR  VCC_DOWN1	PROTECT VIDEO CARD voltage	VIDEO SLOT I/F	(					(		MAIN→VIDEO SLOT I/F  VIDEO SLOT I/F→MAIN
			surveillance				3.3Vdc, Unusua					
	47 46	GND SCL5	GND Clock line of the I2C bus	VIDEO SLOT I/F VIDEO SLOT I/F		Clock signal used during data transmission(3.3 Vac), 3.3Vdc when no data are	Clock signal used during data transmission(3.3 Vac), 3.3Vdc when no data are		0	(		MAIN→VIDEO SLOT I/F
	45	SDA5	Data line of the I2C bus	VIDEO SLOT I/F	C	transmitted  During data exchange: Clock signal (3.3Vac),datanot exchanged:	signal (3.3Vac),datanot	C	0	(	0	MAIN→VIDEO SLOT I/F
	44	SCL_VS	Clock line of the I2C bus	VIDEO SLOT I/F	(	3.3Vdc Clock signal used during data transmission(3.3 Vac), 3.3Vdc when no data are	during data	C	0	(	0	MAIN→VIDEO SLOT I/F
	43	SDA_VS	Data line of the I2C bus	VIDEO SLOT I/F	C	During data exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc	During data exchange: Clock signal	C	0	(	) O	MAIN→VIDEO SLOT I/F
	42 41	GND IN4_DET	GND INPUT4 SIGNAL DETECT for AUTO POWER OFF	VIDEO SLOT I/F VIDEO SLOT I/F	(	) 0	With INPUT4	C	0	(		- VIDEO SLOT I/F→MAIN
	40	SLOT_ST1	CARD TYPE SELECT	VIDEO SLOT I/F	C		When equipped with PDA-5003. 0V, When equipped with PDA-5004	When equipped with PDA-5003. 0V, When equipped with PDA-5004	0V、When equipped with PDA-5004	(	0	VIDEO SLOT I/F→MAIN
	39	S_DIN_SEL	Digital INPUT SELECTOR	VIDEO SLOT I/F	(		SLOT digital ON 0V, SLOT digital OFF	SLOT digital ON 0V, SLOT digital OFF	SLOT digital ON 0V, SLOT digital OFF	(	0	MAIN→VIDEO SLOT I/F
	38	FNC1	FUNCTION LOGIC	VIDEO SLOT I/F	(		INPUT3,5 select 5Vdc, INPUT4 select	INPUT3,5 select 5Vdc,	0	(	0	MAIN→VIDEO SLOT I/F
	37	SLOT_ST2	CARD DETECT for OEM/PIONEER	VIDEO SLOT I/F	(	PIONEER CARD: .3Vdc,	PIONEER CARD: .3Vdc,	PIONEER CARD: .3Vdc,	PIONEER CARD: .3Vdc, OEM CARD: 0V	(	0	VIDEO SLOT I/F→MAIN
	36	IR	INFRARED REMOTE CONTROL DATA	VIDEO SLOT I/F		Clock signal (4.4Vac) when data are received; 4.4Vdc	Clock signal (4.4Vac) when data are received; 4.4Vdc	Clock signal (4.4Vac) when data are received; 4.4Vdc	Clock signal (4.4Vac) when data are	(	0	MAIN→VIDEO SLOT I/F

75

В

D

Ε

PDP-507CMX

■ 2 ■ 3 ■ 4

					10 011			except for case w	hwn units are indiv	idually indicated)	100	
Name	Pin No.	Pin name	FuNon-connectio	n termialtion	AC power ON (Power coad connected to the wal outlet)	MAIN POW No signal	/ER "ON"★ With signal	Power management ★★★	Standby ★★★	Main power OFF ★★	AC Power OFF (Power cord pulled out of the wall outlet  **	Signal direction (DR : Data Relay)
	35	FNC0	FUNCTION LOGIC	VIDEO SLOT I/F	C	INPUT4,5 Select 5Vdc, INPUT3 Select 0V	Select 5Vdc,	Select 5Vdc,	Select 5Vdc,	(	0	MAIN→VIDEO SLOT I/F
	34	G4G	3G4G DISCERMMENT	VIDEO SLOT I/F	O	with 3G CARD. 0V, When equipped with 4G	with 3G CARD. 0V, When equipped with 4G	with 3G CARD. 0V, When equipped with 4G			O	VIDEO SLOT I/F→MAIN
	33	DSUBSW_DET	INPUT1⇔VIDEO CARD ANALOG OUT SELECT	VIDEO SLOT I/F	C	3.3Vdc : INPUT1 select, 0V : VIDEO CARD select	select, 0V:	select、0V: VIDEO CARD	select, 0V:	(	) O	VIDEO SLOT I/F→MAIN
		GND	GND	VIDEO SLOT I/F	C	0	0	0	0	(	0	
	31	VYOBI2 VYOBI1	NC RESERVE	VIDEO SLOT I/F VIDEO SLOT I/F	0	3.3	3.3	3.3	3.3		0 0	VIDEO SLOT I/F⇔MAIN
	29 28	GND GPC5	GND VIDEO CARD⇔COMM CARD LINE	VIDEO SLOT I/F VIDEO SLOT I/F	C	0		0			0	VIDEO SLOT I/F⇔MAIN
	27	GPC2	VIDEO CARD⇔COMM CARD LINE	VIDEO SLOT I/F	C	0	0	0	0	(	0	VIDEO SLOT I/F⇔MAIN
	26	GPC4	VIDEO CARD⇔COMM CARD LINE	VIDEO SLOT I/F	C	0	0	α	0:	(	0	VIDEO SLOT I/F⇔MAIN
	25	GPC1	VIDEO CARD⇔COMM CARD LINE	VIDEO SLOT I/F	C	0	0	0	0	(	0	VIDEO SLOT I/F⇔MAIN
	24	GPC3	VIDEO CARD⇔COMM	VIDEO SLOT I/F	C	0	0	O	0	(	0	VIDEO SLOT I/F⇔MAIN
	23	HYOUJI_X	2 SCREENS Permit/Prohibit	VIDEO SLOT I/F	C	10111111 01400	Permit 0Vdc. Prohibit 3.3Vdc	Permit 0Vdc. Prohibit 3.3Vdc	Permit 0Vdc. Prohibit 3.3Vdc	(	0	VIDEO SLOT I/F→MAIN
	22	GND	GND	VIDEO SLOT I/F	0				0	(	0	
	21	IN5_HD IN5_VD	INPUT5 SYNC INPUT5 SYNC	VIDEO SLOT I/F VIDEO SLOT I/F	INPUT5 SYNC				INPUT5 SYNC INPUT5 SYNC			VIDEO SLOT I/F→MAIN VIDEO SLOT I/F→MAIN
	19	GND	GND	VIDEO SLOT I/F	C	0	0	0	0		0	-
	18	SOUND1	VIDEO CARD AUDIO SELECT	VIDEO SLOT I/F	C	INPUT4,5 AUDIO SELECT 3.4Vdc	INPUT4,5 AUDIO SELECT 3.4Vdc	AUDIO SELECT		(	o o	MAIN→VIDEO SLOT I/F
	17	FNC2	VIDEO SELECT	VIDEO SLOT I/F	C	SELECT		SELECT 0Vdc、INPUT4,5 SELECT	SELECT 0Vdc、INPUT4,5 SELECT	(	0	MAIN→VIDEO SLOT I/F
	16	FNC3	VIDEO SELECT	VIDEO SLOT I/F	C	SELECT	INPUT4 SELECT 0Vdc, INPUT3,5 SELECT 3.3Vdc	SELECT 0Vdc, INPUT3,5	INPUT4 SELECT 0Vdc, INPUT3,5 SELECT 3.3Vdc	(	0	MAIN→VIDEO SLOT I/F
	15	SOUND2	VIDEO CARD AUDIO SELECT	VIDEO SLOT I/F	C	INPUT3,5 AUDIO SELECT 3.4Vdc		AUDIO SELECT		(	0	MAIN→VIDEO SLOT I/F
	14	SD_SEL	DIGITAL SIGNAL FORMAT SELECT	VIDEO SLOT I/F	C	A/D Input Port, No VIDEO CARD	A/D Input Port, No VIDEO CARD	A/D Input Port, No VIDEO CARD	Port, No VIDEO CARD		0	VIDEO SLOT I/F→MAIN
	13	SLOT_ST3	CARD TYPE SELECT	VIDEO SLOT I/F	C	A/D Input Port, No VIDEO CARD	Port, No VIDEO CARD	A/D Input Port, No VIDEO CARD	Port, No VIDEO CARD	(	0	VIDEO SLOT I/F→MAIN
	12	RESETX1	RESET	VIDEO SLOT I/F	C	Release	3.3Vdc RESET 0V, Release	RESET 0V. Release	3.3Vdc RESET 0V, Release RESET 3.3Vdc	(	0	MAIN→VIDEO SLOT I/F
	11	GND	GND	VIDEO SLOT I/F	C		0	0	0	(	0	
	10	INT_EXT	IF U / 232C SELECT	VIDEO SLOT I/F	C	CONNECTOR⇔ VIDEO CARD, 3.3Vdc : PDP⇔	CONNECTOR⇔ VIDEO CARD、 3.3Vdc : PDP⇔	CONNECTOR⇔ VIDEO CARD、 3.3Vdc : PDP⇔	CONNECTOR⇔	(	0	VIDEO SLOT I/F→MAIN
	9	RXD_CARD	UART chosen by GET_UART	VIDEO SLOT I/F	C	recieved (3.3Vac), 3.3Vdc when no data are	duaring data recieved (3.3Vac), 3.3Vdc when no data are	duaring data recieved (3.3Vac), 3.3Vdc when no data are	duaring data recieved	(	0	MAIN→VIDEO SLOT I/F
	8	FIRST_RXD	RXD Direct to 232C	VIDEO SLOT I/F	C	recieved (3.3Vac), 3.3Vdc when no data are	duaring data recieved (3.3Vac), 3.3Vdc when no data are	duaring data recieved (3.3Vac), 3.3Vdc when no data are	duaring data recieved (3.3Vac), 3.3Vdc	(	0	MAIN→VIDEO SLOT I/F
	7	TXD_CARD	UART chosen by GET_UART	VIDEO SLOT I/F	C	transmission(3.3 Vac), 3.3Vdc when no data are	during data transmission(3.3 Vac), 3.3Vdc when no data are	during data transmission(3.3 Vac), 3.3Vdc when no data are	during data	(	0	VIDEO SLOT I/F→MAIN
	6	GET_UART	U-ART PROCESS SELECT	VIDEO SLOT I/F	C	Connector⇔ PDP、0V:232C Connector⇔ VIDEO CARD、PDP⇔	Connector⇔ PDP、0V:232C Connector⇔ VIDEO CARD、PDP⇔	Connector⇔ PDP、0V:232C Connector⇔ VIDEO CARD、PDP⇔	PDP、0V:232C Connector⇔		o o	VIDEO SLOT I/F→MAIN
		GND	GND	VIDEO SLOT I/F			0	0	0			

F

Α

В

С

D

Ε

76

PDP-507CMX

Name	Pin No.	Pin name	FuNon-connection	n termialtion	AC power ON (Power coad connected to the wal outlet)	MAIN POV	Numerical unit:Vdd VER "ON"★ With signal	Power management	vhwn units are indiv	Main power OFF	AC Power OFF (Power cord pulled out of the wall outlet	Signal direction (DR : Data Relay)
	4	KEY	KEY SIGNAL	VIDEO SLOT I/F	**	0 clock signal used	alook aignal usad		alack signal used		**	MAIN→VIDEO SLOT I/F
	,	KET	KEY SIGNAL	WIDEO GEOT WI	, v	duaring data recieved (3.3Vac), 3.3Vdc	duaring data recieved (3.3Vac), 3.3Vdc	duaring data recieved (3.3Vac), 3.3Vdc	duaring data recieved		5	MAIN-VIDEO SLOT I/F
	3 2	NC NC	Non-connection termial Non-connection termial	VIDEO SLOT I/F VIDEO SLOT I/F		-		,				•
D2	1	VDDM3.3V GND	3.3V power supply for microcomputer GND	VIDEO SLOT I/F		0 3.0					0 0	MAIN→VIDEO SLOT I/F
CN6302	2	RA0 GND	RED DIGITAL(1,2ch)	MAIN MAIN	(	0 0	3.3Va	Ċ	) 0		0 0	VIDEO SLOT I/F→MAIN
	4 5	BB7 GND	BLUE DIGITAL(2ch) GND	MAIN MAIN	(	0 0	3.3Va	Č	0		0 0	VIDEO SLOT I/F→MAIN
	6	RA1 GND	RED DIGITAL(1,2ch)	MAIN MAIN	(	0 0	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	8 9	BB6 GND	BLUE DIGITAL(2ch) GND	MAIN MAIN	(	0 0	3.3Va		0		0 0	VIDEO SLOT I/F→MAIN
	10	RA2 GND	RED DIGITAL(1,2ch)	MAIN MAIN	(	0 0	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	12	BB5 GND	BLUE DIGITAL(2ch) GND	MAIN MAIN	(	0 (	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	14	RA3 GND	RED DIGITAL(1,2ch) GND	MAIN	(	0 0	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	16	BB4 GND	BLUE DIGITAL(2ch) GND	MAIN MAIN	(	0 (	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	18	RA4 GND	RED DIGITAL(1,2ch)	MAIN MAIN	(	0 0	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	20	BB3 GND	BLUE DIGITAL(2ch) GND	MAIN MAIN		0 (	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	22	RA5 GND	RED DIGITAL(1,2ch)	MAIN MAIN	(	0 0	3.3Va	Ċ	0		0 0	VIDEO SLOT I/F→MAIN
	24 25	BB2 GND	BLUE DIGITAL(2ch)	MAIN MAIN	(	0 (	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	26 27	RA6 GND	RED DIGITAL(1,2ch)	MAIN MAIN	(	0 0	3.3Va	Ċ	) 0		0 0	VIDEO SLOT I/F→MAIN
	28	BB1 GND	BLUE DIGITAL(2ch) GND	MAIN MAIN	(	0 0	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	30 31	RA7 GND	RED DIGITAL(1,2ch) GND	MAIN MAIN	(	0 0	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	32	BB0 GND	BLUE DIGITAL(2ch)	MAIN MAIN	(	0 0	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	34	GA0 GND	GREEN DIGITAL(1,2ch) GND	MAIN MAIN	(		3.3Va	Ċ	) 0		0 0	VIDEO SLOT I/F→MAIN
	35 36	GB7	GREEN DIGITAL(2ch)	MAIN MAIN		0 0	3.3Va	Č	0		0 0	VIDEO SLOT I/F→MAIN
	37 38	GND GA1	GREEN DIGITAL(1,2ch)	MAIN	(	0 (	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	39 40	GND GB6	GND GREEN DIGITAL(2ch)	MAIN MAIN	(	0 (	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	41 42	GND GA2	GND GREEN DIGITAL(1,2ch)	MAIN MAIN	(	0 (	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	43 44	GND GB5	GND GREEN DIGITAL(2ch)	MAIN MAIN	(	0 0	3.3Va	Č	0		0 0	VIDEO SLOT I/F→MAIN
	45 46	GND GA3	GND GREEN DIGITAL(1,2ch)	MAIN MAIN	(	0 (	3.3Va	(			0 0	VIDEO SLOT I/F→MAIN
	47	GND GB4	GND GREEN DIGITAL(2ch)	MAIN MAIN	(		3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
	49 50	GND GA4	GND GREEN DIGITAL(1,2ch)	MAIN MAIN	(	0 (	3.3Va	(	0		0 0	VIDEO SLOT I/F→MAIN
D2 CN4003	50 49	GND RA0	RED DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	(	0 0	3.3Vac	(	0		0 0	VIDEO SLOT I/F→MAIN
	48 47	GND BB7	BLUE DIGITAL(2ch)	VIDEO SLOT I/F	(		3.3Vac	Ċ	0		0 0	VIDEO SLOT I/F→MAIN
	46 45	GND RA1	RED DIGITAL(1,2ch)	VIDEO SLOT I/F	(	0 (	3.3Vac	C	0		0 0	VIDEO SLOT I/F→MAIN
	44	GND BB6	BLUE DIGITAL(2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	(	0 (	3.3Vac	· ·	) 0		0 0	VIDEO SLOT I/F→MAIN
	42	GND RA2	RED DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	(	0 (	3.3Vac	(	0		0 0	VIDEO SLOT I/F→MAIN
	40 39	GND BB5	BLUE DIGITAL(2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	(	0 (	3.3Vac	(	0		0 0	VIDEO SLOT I/F→MAIN
	38	GND RA3	RED DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	(	0 (	3.3Vac	(	0		0 0	VIDEO SLOT I/F→MAIN
	36 35	BB4 GND	GND BLUE DIGITAL(2ch)	VIDEO SLOT I/F	(	0 0	3.3Vac	Ċ	0		0 0	VIDEO SLOT I/F→MAIN
	34	RA4	RED DIGITAL(1,2ch)	VIDEO SLOT I/F		0 (	3.3Vac	(	0		0 0	VIDEO SLOT I/F→MAIN
	32 31	GND BB3	BLUE DIGITAL(2ch)	VIDEO SLOT I/F	(	0 (	3.3Vac	(	0		0 0	VIDEO SLOT I/F→MAIN
	30 29	GND RA5	RED DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	(	0 (	3.3Vac	· ·	0		0 0	VIDEO SLOT I/F→MAIN
	28 27	GND BB2	BLUE DIGITAL(2ch)	VIDEO SLOT I/F	(	0 0	3.3Vac	(	0		0 0	VIDEO SLOT I/F→MAIN
	26 25	GND RA6	RED DIGITAL(1,2ch)	VIDEO SLOT I/F	(	0 0	3.3Vac	(	0		0 0	VIDEO SLOT I/F→MAIN
	24	GND BB1	BLUE DIGITAL(2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	(	0 (	3.3Vac	(	0		0 0	- VIDEO SLOT I/F→MAIN
	22 21	GND RA7	GND RED DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	(	0 0	3.3Vac	(			0 0	VIDEO SLOT I/F→MAIN
	20 19	GND BB0	BLUE DIGITAL(2ch)	VIDEO SLOT I/F	(	0 (	3.3Vac	(	0		0 0	- VIDEO SLOT I/F→MAIN
	18	GND GA0	GND GREEN DIGITAL(1,2ch)	VIDEO SLOT I/F	(		3.3Vac	(	0		0 0	VIDEO SLOT I/F→MAIN
	16 15	GND GB7	GND GREEN DIGITAL(2ch)	VIDEO SLOT I/F VIDEO SLOT I/F		0 (	3.3Vac	Ċ	0		0 0	- VIDEO SLOT I/F→MAIN
	14 13	GND GA1	GND GREEN DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	(	0 0	3.3Vac	(	0		0 0	- VIDEO SLOT I/F→MAIN
	12 11	GND GB6	GND GREEN DIGITAL(2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	(	0 (	3.3Vac	· ·	) 0		0 0	- VIDEO SLOT I/F→MAIN
	10 9	GND GA2	GND GREEN DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	(	D (	3.3Vac	(	0		0 0	- VIDEO SLOT I/F→MAIN
	8 7	GND GB5	GND GREEN DIGITAL(2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	(	0 ( 0 (	3.3Vac	(	0		0 0	- VIDEO SLOT I/F→MAIN
	6 5	GND GA3	GND GREEN DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	(	0 ( 0 (	3.3Vac	(	0		0 0	- VIDEO SLOT I/F→MAIN
	4 3	GND GB4	GND GREEN DIGITAL(2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	(		3.3Vac	· ·	) 0		0 0	- VIDEO SLOT I/F→MAIN
	2	GND GA4	GND GREEN DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F		0 (	3.3Vac	· ·	0		0 0	VIDEO SLOT I/F→MAIN
D1	1	GB3	GREEN DIGITAL(2ch)	MAIN	(	0 (	3.3Vac	(	0		0 0	VIDEO SLOT I/F→MAIN

В

С

D

Ε

PDP-507CMX

8

5

1 2 3 4

							Numerical unit:Vdc;	except for case w	hwn units are indi	vidually indicated)		
Name	Pin No.	Pin name	FuNon-connection	ı termialtion	AC power ON (Power coad connected to the wal outlet)		VER "ON"★ With signal	Power management **	Standby ★★★	Main power OFF ★★	AC Power OFF (Power cord pulled out of the wall outlet **	Signal direction (DR : Data Relay)
CN6301	2 3	GND GA5	GND GREEN DIGITAL(1,2ch)	MAIN MAIN	0	D C		C	C		0 0	- VIDEO SLOT I/F→MAIN
	4	GND	GND	MAIN	0	o c	0	0	C	(	0	-
	5 6	GB2 GND	GREEN DIGITAL(2ch) GND	MAIN	0			0			0 0	VIDEO SLOT I/F→MAIN -
	7 8	GA6 GND	GREEN DIGITAL(1,2ch) GND	MAIN MAIN	0			0			0 0	VIDEO SLOT I/F→MAIN
	9	GB1	GREEN DIGITAL(2ch)	MAIN	0	0 0	3.3Vac	C	C	(	0	VIDEO SLOT I/F→MAIN
	10 11	GND GA7	GND GREEN DIGITAL(1,2ch)	MAIN MAIN	0			<u>C</u>			0 0	- VIDEO SLOT I/F→MAIN
	12 13	GND GB0	GND GREEN DIGITAL(2ch)	MAIN MAIN	0			0			0 0	- VIDEO SLOT I/F→MAIN
	14	GND	GND	MAIN	0	0 0	0	C	C	(	0	-
	15 16	GND	BLUE DIGITAL(1,2ch)	MAIN MAIN	0			0			0 0	
	17	RB7	RED DIGITAL (2ch)	MAIN	0	0 0	3.3Vac	C	C	(	0	VIDEO SLOT I/F→MAIN
	18 19	GND BA1	GND BLUE DIGITAL(1,2ch)	MAIN MAIN	0	) <u>(</u>		0			0 0	VIDEO SLOT I/F→MAIN
	20 21	GND RB6	GND RED DIGITAL (2ch)	MAIN MAIN	0			0			0 0	- VIDEO SLOT I/F→MAIN
	22	GND	GND	MAIN	0	0 0	0	C	C	(	0 0	-
	23 24	GND	BLUE DIGITAL(1,2ch) GND	MAIN MAIN	0			0			0 0	VIDEO SLOT I/F→MAIN -
	25 26	RB5 GND	RED DIGITAL (2ch) GND	MAIN MAIN	0	1		0		1	0 0	VIDEO SLOT I/F→MAIN
	27	BA3	BLUE DIGITAL(1,2ch)	MAIN	0	0 0	3.3Vac	C	C	(	0	VIDEO SLOT I/F→MAIN
	28 29	GND RB4	GND RED DIGITAL (2ch)	MAIN MAIN	0			0			0 0	VIDEO SLOT I/F→MAIN
	30 31	GND BA4	GND BLUE DIGITAL(1,2ch)	MAIN MAIN	0			0			0 0	
	32	GND	GND	MAIN	0	D C	0	C	C		0 0	
	33 34	RB3 GND	RED DIGITAL (2ch) GND	MAIN MAIN	0	1		0			0 0	VIDEO SLOT I/F→MAIN -
	35	BA5	BLUE DIGITAL(1,2ch)	MAIN	0	O C	3.3Vac	C	C	(	0	VIDEO SLOT I/F→MAIN
	36 37	GND RB2	GND RED DIGITAL (2ch)	MAIN MAIN	0			0			0 0	- VIDEO SLOT I/F→MAIN
	38 39	GND BA6	GND BLUE DIGITAL(1,2ch)	MAIN MAIN	0			C			0 0	
	40	GND	GND	MAIN MAIN	0	D C	0	C	C		0 0	-
	41	RB1 GND	RED DIGITAL (2ch) GND	MAIN	0			0			0 0	VIDEO SLOT I/F→MAIN -
	43 44	BA7 GND	BLUE DIGITAL(1,2ch) GND	MAIN MAIN	0			0			0 0	
	45	RB0	RED DIGITAL (2ch)	MAIN	0	o c	3.3Vac	C	C	(	0	
	46 47	GND	GND CLK	MAIN MAIN	0			0			0 0	- VIDEO SLOT I/F→MAIN
	48	DE	DE for SYSTEM SYNC	MAIN	0			C			0	VIDEO SLOT I/F→MAIN
	49 50	VD VD	HD for DIGITAL SYNC  VD for DIGITAL SYNC	MAIN	0			0			0 0	VIDEO SLOT I/F→MAIN VIDEO SLOT I/F→MAIN
D1	50	GB3	GREEN DIGITAL(2ch)	VIDEO SLOT I/F	0		3.3Vac	C			0	VIDEO SLOT I/F→MAIN
CN4002	49 48	GND GA5	GND GREEN DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0			0			0 0	- VIDEO SLOT I/F→MAIN
	47 46	GND GB2	GND GREEN DIGITAL(2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0			0			0 0	- VIDEO SLOT I/F→MAIN
	45	GND	GND	VIDEO SLOT I/F	0	0 0	0	C	C	(	0	
	44	GA6 GND	GREEN DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0			0			0 0	VIDEO GEOT BY MINING
	42 41	GB1	GREEN DIGITAL(2ch) GND	VIDEO SLOT I/F VIDEO SLOT I/F	0			0			0 0	VIDEO SLOT I/F→MAIN
	40	GND GA7	GREEN DIGITAL(1,2ch)	VIDEO SLOT I/F	0	O C	3.3Vac	C	C	(	0	VIDEO SLOT I/F→MAIN
	39	GND GB0	GND GREEN DIGITAL(2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0			C			0 0	- VIDEO SLOT I/F→MAIN
	37 36	GND BA0	GND BLUE DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0			0			0 0	-
	35	GND	GND	VIDEO SLOT I/F	0	0 0	0	C	C	(	0 0	VIDEO SLOT I/F→MAIN -
	34	GND	RED DIGITAL (2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0		-	0			0 0	VIDEO SLOT I/F→MAIN
	32	BA1	BLUE DIGITAL(1,2ch)	VIDEO SLOT I/F	0	0 0	3.3Vac	C	C	(	0	VIDEO SLOT I/F→MAIN
	31 30	GND RB6	GND RED DIGITAL (2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0			0			0 0	- VIDEO SLOT I/F→MAIN
	29 28	GND BA2	GND BLUE DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0			0			0 0	- VIDEO SLOT I/F→MAIN
	27	GND	GND	VIDEO SLOT I/F	0	0 0	0	C	C	(	0 0	
	26 25	RB5 GND	RED DIGITAL (2ch) GND	VIDEO SLOT I/F VIDEO SLOT I/F	0		0	0	C		0 0	VIDEO SLOT I/F→MAIN -
	24 23	BA3 GND	BLUE DIGITAL(1,2ch) GND	VIDEO SLOT I/F VIDEO SLOT I/F	0	) C	3.3Vac	C	C	(	0 0	VIDEO SLOT I/F→MAIN
	22	RB4	RED DIGITAL (2ch)	VIDEO SLOT I/F	0	0 0	3.3Vac	C	C	(	0	VIDEO SLOT I/F→MAIN
	21 20	GND BA4	GND BLUE DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0			0			0 0	- VIDEO SLOT I/F→MAIN
	19 18	GND RB3	GND RED DIGITAL (2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0			0	C	(	0 0	-
	17	GND	GND	VIDEO SLOT I/F	0	) C	0	C	C		0 0	
	16 15	BA5 GND	BLUE DIGITAL(1,2ch) GND	VIDEO SLOT I/F VIDEO SLOT I/F	0			0			0 0	
	14	RB2	RED DIGITAL (2ch)	VIDEO SLOT I/F	0	0 0	3.3Vac	C	C	(	0	VIDEO SLOT I/F→MAIN
	13 12	GND BA6	BLUE DIGITAL(1,2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0	) (		0	C	(	0 0	- VIDEO SLOT I/F→MAIN
	11 10	GND RB1	GND RED DIGITAL (2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0			0			0 0	-
	9	GND	GND	VIDEO SLOT I/F	0	0 0	0	C	C		0 0	
	7	BA7 GND	BLUE DIGITAL(1,2ch) GND	VIDEO SLOT I/F VIDEO SLOT I/F	0	0 0	0	0	C		0 0	VIDEO SLOT I/F→MAIN -
	6 5	RB0	RED DIGITAL (2ch) GND	VIDEO SLOT I/F VIDEO SLOT I/F	0			C	C	(	0 0	VIDEO SLOT I/F→MAIN
	4	GND CLK	CLK	VIDEO SLOT I/F	0	3.3Vac	3.3Vac	C	C	(	0	VIDEO SLOT I/F→MAIN
	2	DE HD	DE for SYSTEM SYNC HD for DIGITAL SYNC	VIDEO SLOT I/F VIDEO SLOT I/F	0		3.3Vac SYNC 3.3Vac	0			0 0	VIDEO CECT DI AMPRILE
	1	VD	VD for DIGITAL SYN C	VIDEO SLOT I/F	0	0 0	SYNC 3.3Vac	C	C		0	VIDEO SLOT I/F→MAIN
PS	1	V+12V	12V power supply for SLOT circuits		0						0	POWER→VIDEO SLOT I/F
CN4001	2	V+12V		VIDEO SLOT I/F	0	0 12	12	C	C	(	0	POWER→VIDEO SLOT I/F
	3 4	GND GND	GND GND	VIDEO SLOT I/F VIDEO SLOT I/F	0			0			0 0	-
	5	V+16.5	16.5V power supply for SLOT circuits	VIDEO SLOT I/F	Ö			C			0	POWER→VIDEO SLOT I/F
	6 7	GND V+3.3V	GND 3.3V power supply for SLOT	VIDEO SLOT I/F VIDEO SLOT I/F	0						0 0	DOMES WIDES STATE
		1 * TO.O V		DLU SLUI I/F	1	3.3	3.3	U				POWER→VIDEO SLOT I/F
	- 8	V+3.3V	3.3V power supply for SLOT	VIDEO SLOT I/E	0	3.3	3.3	C	C		0	POWER→VIDEO SLOT I/F

F

Α

В

С

D

Ε

					AC power ON (Power coad	Basic operation( MAIN POV	Numerical unit:Vdc VER "ON"★	except for case we Power	hwn units are indiv	vidually indicated) Main power	AC Power OFF (Power cord	Signal direction
Name	Pin No.	Pin name	FuNon-connection	n termialtion	connected to the wal outlet)	No signal	With signal	management	Standby ★★★	of the state of t	pulled out of the wall outlet	(DR : Data Relay)
	9	GND GND	GND GND	VIDEO SLOT I/F VIDEO SLOT I/F	0							:
	11	V+3.3STB	3.3V power supply for SLOT STB circuits		0						o o	POWER→VIDEO SLOT I/F
	12 13	GND NC	GND Non-connection termial	VIDEO SLOT I/F VIDEO SLOT I/F	0	(	0	0	0	(	0 0	-
PS	13	V+12V	12V power supply for SLOT circuits	PSU	0	12	12	0	0	(	0	POWER→VIDEO SLOT I/F
	12	V+12V	12V power supply for SLOT circuits		0	12	2 12				0	POWER→VIDEO SLOT I/F
	11	GND GND	GND GND	PSU PSU	0	(	0	0	0	(	0 0	•
	9	V+16.5V	16.5V power supply for SLOT circuits	PSU	0		1		1		0	POWER→VIDEO SLOT I/F
	7	GND V+3.3V	GND 3.3V power supply for SLOT	PSU PSU	0						D. 0	POWER→VIDEO SLOT I/F
	6	V+3.3V	3.3V power supply for SLOT	PSU	0	3.0	3 3.3	0	0	(	0 0	POWER→VIDEO SLOT I/F
	5 4	GND GND	GND GND	PSU PSU	0						0 0	:
	3	V+3.3STB	3.3V power supply for SLOT STB circuits		0						0 0	POWER→VIDEO SLOT I/F
	2	GND NC	GND Non-connection termial	PSU PSU	0	(	0 0	0	0		0 0	
14006	1 2	GND GND	GND	VIDEO SLOT I/F VIDEO SLOT I/F	0						0 0	:
	3	Y(G)	GREEN(Y) for ANALOG(on		0		Video signal	0			0 0	VIDEO CARD→VIDEO SLOT
	4	GND	Sync) GND	VIDEO SLOT I/F	0				0	(	00	
	5	В	BLUE(Cb or Pb) for ANALOG	VIDEO SLOT I/F	0		Video Signal 0.7Vp-p					VIDEO CARD→VIDEO SLOT
	6 7	GND R	GND RED(Cr or Pr) for ANALOG	VIDEO SLOT I/F VIDEO SLOT I/F	0		0	0			0 0	- VIDEO CARD→VIDEO SLOT
	8	GND	GND	VIDEO SLOT I/F	0		0.7Vp-p				0 0	*
	9	HD_SA	HD for ANALOG SYNC	VIDEO SLOT I/F	0		SLOT SYNC HIGH MIN	0				VIDEO CARD→VIDEO SLOT
							2.4V、LOW MAX 0.9V					
	10	GND VD_SA	GND VD for ANALOG SYNC	VIDEO SLOT I/F VIDEO SLOT I/F	0		O 0 O SLOT SYNC	0			0 0	- VIDEO CARD→VIDEO SLOT
	"	15_0,1	15 15/110/2000	1020 0201 11			HIGH MIN	·		·	Ĭ	VIDEO CARD -VIDEO SEOT
							2.4V、LOW MAX 0.9V					
	12 13	GND AUDIO_L	GND AUDIO L ch	VIDEO SLOT I/F VIDEO SLOT I/F	0		O SLOT AUDIO	0			0 0	- VIDEO CARD→VIDEO SLOT
	14 15	GND AUDIO_R	GND AUDIO R ch	VIDEO SLOT I/F VIDEO SLOT I/F	0	(		0		(	0 0	VIDEO CARD→VIDEO SLOT
	16 17	GND SLOT_ST1	GND CARD TYPE SELECT	VIDEO SLOT I/F	0	(	0	0	0	-	0 0	-
	"	SLOT_STT	CARD TYPE SELECT	VIDEO SLOT I/F	0	When equipped with PDA-5003 0V. Wher equipped with PDA-5004 0.36Vdd	with PDA-5003. OV. When equipped with PDA-5004	0V、When equipped with PDA-5004	with PDA-5003. 0V, When equipped with PDA-5004			VIDEO CARD→VIDEO SLOT
	18	S_DIN_SEL	Digital INPUT SELECTOR	VIDEO SLOT I/F	0	SLOT digita	SLOT digital ON 0V, SLOT digital OFF	SLOT digital ON 0V, SLOT digital OFF	SLOT digital ON 0V, SLOT digital OFF	(	0	VIDEO SLOT I/F→VIDEO CAI
	19	FNC1	FUNCTION LOGIC	VIDEO SLOT I/F	0	INPUT3, select 5Vdc, INPUT4 selec 0V	select 5Vdc, t INPUT4 select	select 5Vdc,			O O	VIDEO SLOT I/F→VIDEO CAI
	20	FNC0	FUNCTION LOGIC	VIDEO SLOT I/F	0	select 5Vdc. INPUT3 selec 0V	select 5Vdc, t INPUT3 select 0V	select 5Vdc. INPUT3 select 0V	select 5Vdc. INPUT3 select		0	VIDEO SLOT I/F→VIDEO CAI
	21	V+3.3V V+3.3V	VCC+3.3V(MAX 1.35A) VCC+3.3V(MAX 1.35A)	VIDEO SLOT I/F	0						0 0	VIDEO SLOT I/F→VIDEO CAF VIDEO SLOT I/F→VIDEO CAF
	23 24	VD DET GND		VIDEO SLOT I/F VIDEO SLOT I/F	0						0 0	
	25 26	HD DET GND	Non-connection termial GND	VIDEO SLOT I/F VIDEO SLOT I/F	- 0		-					
	27 28	VD GND	VD for DIGITAL SYN C	VIDEO SLOT I/F VIDEO SLOT I/F	0	(	3.3Vac	0	0	(	0 0	VIDEO CARD→VIDEO SLOT
	29	HD	HD for DIGITAL SYNC	VIDEO SLOT I/F VIDEO SLOT I/F	0	(	3.3Vac	0	0	(	0 0	VIDEO CARD→VIDEO SLOT
	30 31 32	GND GND RB0	GND	VIDEO SLOT I/F VIDEO SLOT I/F VIDEO SLOT I/F	0	(	0	0	0	(	0 0	- - VIDEO CARD→VIDEO SLOT
	33	RB1	RED DIGITAL (2ch) RED DIGITAL (2ch)	VIDEO SLOT I/F	0	(	3.3Vac	0	0	(	0	VIDEO CARD→VIDEO SLOT
	34 35	RB2 RB3	RED DIGITAL (2ch) RED DIGITAL (2ch)	VIDEO SLOT I/F	0			0			0 0	VIDEO CARD→VIDEO SLOT VIDEO CARD→VIDEO SLOT
	36	RB4	RED DIGITAL (2ch)	VIDEO SLOT I/F	0	(	3.3Vac	0	0	(	0 0	VIDEO CARD→VIDEO SLOT
	37	RB5 RB6	RED DIGITAL (2ch) RED DIGITAL (2ch)	VIDEO SLOT I/F	0	(	3.3Vac	0	0	(	0 0	VIDEO CARD→VIDEO SLOT VIDEO CARD→VIDEO SLOT
	39 40	RB7 GND	RED DIGITAL (2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0		3.3Vac	0	0		0 0	VIDEO CARD→VIDEO SLOT
	41 42	GND GB0	GND GREEN DIGITAL(2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0	(	0	0	0		0 0	VIDEO CARD→VIDEO SLOT
	43	GB1	GREEN DIGITAL(2ch)	VIDEO SLOT I/F	0	(	3.3Vac	0	0	(	0 0	VIDEO CARD→VIDEO SLOT
	44 45	GB2 GB3	GREEN DIGITAL(2ch) GREEN DIGITAL(2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0			0			0 0	VIDEO CARD→VIDEO SLOT VIDEO CARD→VIDEO SLOT
	46 47	GB4 GB5	GREEN DIGITAL(2ch) GREEN DIGITAL(2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0	(	3.3Vac	0	0	(	0 0	VIDEO CARD→VIDEO SLOT
	48	GB6	GREEN DIGITAL(2ch)	VIDEO SLOT I/F	0	(	3.3Vac	0	0	(	0 0	VIDEO CARD→VIDEO SLOT VIDEO CARD→VIDEO SLOT
	49 52	GB7 GND	GREEN DIGITAL(2ch) GND	VIDEO SLOT I/F	0		3.3Vac				0 0	VIDEO CARD→VIDEO SLOT
	53 54	GND BB0	GND BLUE DIGITAL(2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0	(	0	0	0		0 0	VIDEO CARD→VIDEO SLOT
	55	BB1	BLUE DIGITAL(2ch)	VIDEO SLOT I/F	0	(	3.3Vac	0	0	(	0 0	VIDEO CARD→VIDEO SLOT
	56 57	BB2 BB3	BLUE DIGITAL(2ch) BLUE DIGITAL(2ch)	VIDEO SLOT I/F	0						0 0	VIDEO CARD→VIDEO SLOT VIDEO CARD→VIDEO SLOT
	58	BB4	BLUE DIGITAL(2ch)	VIDEO SLOT I/F	0	(	3.3Vac	0	0	(	0 0	VIDEO CARD→VIDEO SLOT
ļ	59	BB5 BB6	BLUE DIGITAL(2ch) BLUE DIGITAL(2ch)	VIDEO SLOT I/F VIDEO SLOT I/F	0						0 0	VIDEO CARD→VIDEO SLOT VIDEO CARD→VIDEO SLOT
	60											
	60 61 62	BB7 GND	BLUE DIGITAL(2ch) GND	VIDEO SLOT I/F VIDEO SLOT I/F	0						0 0	VIDEO CARD→VIDEO SLOT

F

В

С

D

Е

PDP-507CMX

8

5

■ 2 ■ 3 ■ 4

Name	Pin No.	Pin name	FuNon-connection	n termialtion	AC power ON (Power coad connected to the wal outlet)	Basic operation(I MAIN POW No signal		Power management	hwn units are indiv Standby ★★★	idually indicated)  Main power  OFF  ★★	AC Power OFF (Power cord pulled out of the wall outlet	Signal direction (DR : Data Relay)
CN4006	67	KEY	KEY SIGNAL	VIDEO SLOT I/F		duaring data recieved (3.3Vac), 3.3Vdc when no data are	duaring data recieved (3.3Vac), 3.3Vdc when no data are	recieved (3.3Vac), 3.3Vdc when no data are	duaring data recieved (3.3Vac), 3.3Vdc when no data are	(	) 0	VIDEO SLOT I/F→VIDEO CARD
		NC TXD_CARD	Non-connection termial UART chosen by	VIDEO SLOT I/F VIDEO SLOT I/F	-	received.	received.	received Clock signal used	received.		-	
	09	TXD_CAND	GET_UART	VIDEO SLOT I/F		during data transmission(3.3 Vac), 3.3Vdc	during data transmission(3.3 Vac), 3.3Vdc	during data transmission(3.3	during data transmission(3.3 Vac), 3.3Vdc			VIDEO CARD→VIDEO SLOT I/F
	70	RXD_CARD	UART chosen by GET_UART	VIDEO SLOT I/F		duaring data recieved (3.3Vac), 3.3Vdc	duaring data recieved (3.3Vac), 3.3Vdc	clock signal used duaring data recieved (3.3Vac), 3.3Vdc when no data are received.	duaring data recieved (3.3Vac), 3.3Vdc	(	0	VIDEO SLOT I/F→VIDEO CARD
	71	INT_EXT	IF U / 232C SELECT	VIDEO SLOT I/F	C		CONNECTOR⇔ VIDEO CARD、 3.3Vdc : PDP⇔	CONNECTOR⇔ VIDEO CARD, 3.3Vdc : PDP⇔	CONNECTOR⇔ VIDEO CARD, 3.3Vdc : PDP⇔	(	0	VIDEO CARD→VIDEO SLOT I/F
	72	NC	Non-connection termial	VIDEO SLOT I/F							-	•
	73	EMGREQ1_V	Non-connection termial	VIDEO SLOT I/F		-		-			-	
	74	EMGREQ2_V	Non-connection termial	VIDEO SLOT I/F		-		-				•
	75	IC1V_OE	IC1 DIGITAL VIDEO	VIDEO SLOT I/F	C	3.3	3.3	0	0	(	0	
	76	RESETX1	CONTOROL	VIDEO SLOT I/F	0				RESET OV.			VIDEO OLOTVE AVETTER
		NC NC		VIDEO SLOT I/F	, and the second	Release	RESET 0V, Release RESET 3.3Vdc	RESET 0V, Release RESET 3.3Vdc	Release			VIDEO SLOT I/F→VIDEO CARD
		SD_SEL	Non-connection termial DIGITAL SIGNAL	VIDEO SLOT I/F	C	A/D Input	A/D Input	A/D Input	A/D Input	(	0	VIDEO CARD→VIDEO SLOT I/F
			FORMAT SELECT			Port, No VIDEO CARD 3.3Vdc	3.3Vdc	VIDEO CARD 3.3Vdc	VIDEO CARD 3.3Vdc			
	79	FNC2	FUNCTION LOGIC	VIDEO SLOT I/F	C			0Vdc, INPUT4,5	0Vdc、INPUT4,5	(	). O	VIDEO SLOT I/F→VIDEO CARD
	80	FNC3	FUNCTION LOGIC	VIDEO SLOT I/F	C	0Vdc, INPUT3,5 select 3.3Vdc	0Vdc, INPUT3,5 select 3.3Vdc	select 3.3Vdc	0Vdc, INPUT3,5 select 3.3Vdc			VIDEO SLOT I/F→VIDEO CARD
		SOUND1 GND	AUDIO SELECTOR	VIDEO SLOT I/F	C	select 3.4Vdc	select 3.4Vdc					VIDEO SLOT I/F→VIDEO CARD
	83	DSUBR	Non-connection termial	VIDEO SLOT I/F					-		-	:
	85	GND DSUBG	GND Non-connection termial	VIDEO SLOT I/F VIDEO SLOT I/F	0				-	(	-	<del></del>
	86 87	GND DSUBB	GND Non-connection termial	VIDEO SLOT I/F VIDEO SLOT I/F	0	0	0	0	0	(	) 0	
	88 89	GND IN5 HD	GND INPUT5 SYNC	VIDEO SLOT I/F VIDEO SLOT I/F	INPUT5 SYNC				INPUT5 SYNC	INDITE SYNC	INDUTE SYNC	- VIDEO CARD→VIDEO SLOT I/F
	90	SOUSA X	Non-connection termial	VIDEO SLOT I/F							-	-
	91	GPC1	VIDEO CARD⇔COMM CARD LINE	VIDEO SLOT I/F	l c	٥	0	0	٩	(	1 9	VIDEO CARD⇔VIDEO SLOT I/F
	92	GPC2	VIDEO CARD⇔COMM	VIDEO SLOT I/F	C	0	0	0	0	(	0	VIDEO CARD⇔VIDEO SLOT I/F
	93	GPC5	CARD LINE VIDEO CARD⇔COMM	VIDEO SLOT I/F		0	0		0			VIDEO CARD⇔VIDEO SLOT I/F
	30	ui os	CARD LINE	VIDEO GEOT IVI		]	ľ		Ĭ	•	1 1	VIDEO CARDOVIDEO SLOT I/F
		VYOBI1	RESERVE	VIDEO SLOT I/F VIDEO SLOT I/F	C	3.3	3.3	3.3	3.3	(	0	VIDEO CARD⇔VIDEO SLOT I/F
	95 96	VYOBI2 DSUBSW_DET	INC INPUT1⇔VIDEO CARD ANALOG OUT SELECT	VIDEO SLOT I/F	C	3.3Vdc : INPUT1 select, 0V : VIDEO CARD select	select, 0V:	3.3Vdc : INPUT1 select, 0V : VIDEO CARD select	3.3Vdc : INPUT1 select, 0V : VIDEO CARD select	Ć	0	VIDEO CARD→VIDEO SLOT I/F
		GND GND	GND GND	VIDEO SLOT I/F VIDEO SLOT I/F	0					(		
	104	GND SCL_VS	GND Clock line of the I2C bus	VIDEO SLOT I/F VIDEO SLOT I/F		Clock signal used during data transmission(3.3 Vac), 3.3Vdc when no data are	Clock signal used during data transmission(3.3 Vac), 3.3Vdc	0		(		- MAIN→VIDEO SLOT I/F
	105 106	GND SDA_VS	GND Data line of the I2C bus	VIDEO SLOT I/F VIDEO SLOT I/F	0	During data	During data	0		(		MAIN→VIDEO SLOT I/F
						exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc	exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc					WAIN-VIDEO SLOT I/F
	108	GND GND	GND GND	VIDEO SLOT I/F VIDEO SLOT I/F	0	0	0	0	0		) 0	<u> </u>
		GND V+12V	GND VCC+12V(MAX 830mA)	VIDEO SLOT I/F VIDEO SLOT I/F	0					(		- VIDEO SLOT I/F→VIDEO CARD
	111	GND	GND	VIDEO SLOT I/F	C	0	0	0	0	(		-
	113	V+12V GND	GND	VIDEO SLOT I/F VIDEO SLOT I/F	0	0	0	0	0	(	) 0	VIDEO SLOT I/F→VIDEO CARD -
	114	V+3.3STB V+13.5	0.1A VCC+13.5V(MAX 220mA)	VIDEO SLOT I/F	0	3.3	3.3		3.3	(		VIDEO SLOT I/F→VIDEO CARD
		V+13.5 V+13.5	VCC+13.5V(MAX 220mA) VCC+13.5V(MAX 220mA)	VIDEO SLOT I/F VIDEO SLOT I/F	0							VIDEO SLOT I/F→VIDEO CARD VIDEO SLOT I/F→VIDEO CARD
		IN4_DET	INPUT4 SIGNAL DETECT for AUTO POWER OFF	VIDEO SLOT I/F	C	When INPUT4 signal is inputted. 0V、When INPUT4 signal	When INPUT4 signal is inputted. 0V、When INPUT4 signal is not inputted,	0		(	0	VIDEO CARD→VIDEO SLOT I/F
	118	IN3_DET	Non-connection termial	VIDEO SLOT I/F				-			-	•
		1	l .	<u>l</u>	1			i			i	

F

80

Α

В

С

D

Ε

1

PDP-507CMX

_	6	_	7	8

ne	Pin No.	Pin name	FuNon-connection	n termialtion	AC power ON (Power coad connected to the		/ER "ON"★	Power	whwn units are indiversely standby	Main power	AC Power OFF (Power cord pulled out of the	Signal direction
	1	Tirriano	T divoli connectic	Triorina don	wal outlet)	No signal	With signal	management ★★★	***	OFF ★★	wall outlet  ★★	(DR : Data Relay)
106	119	SLOT_ST2	CARD DETECT for OEM/PIONEER	VIDEO SLOT I/F	(	PIONEER CARD: .3Vdc, OEM CARD:	PIONEER CARD: .3Vdc, OEM CARD:	OEM CARD:	PIONEER CARD: .3Vdc, OEM CARD:	(	0	VIDEO CARD→VIDEO SLOT I/F
	120	IR	INFRARED REMOTE CONTROL DATA	VIDEO SLOT I/F	(	OV Clock signal (4.4Vac) when data are	OV Clock signal (4.4Vac) when data are	OV Clock signal (4.4Vac) when data are	OV Clock signal (4.4Vac) when data are		D O	VIDEO SLOT I/F→VIDEO CARD
								received; 4.4Vdc when no data are received.	received; 4.4Vdc when no data are received.			
	121 122	NC NC	Non-connection termial Non-connection termial	VIDEO SLOT I/F VIDEO SLOT I/F								
	123 124	GND GND	GND GND	VIDEO SLOT I/F VIDEO SLOT I/F		) (	Č	) c	0		0 0	
	125	3G4G	3G4G DISCERMMENT	VIDEO SLOT I/F		When equipped with 3G CARD. 0V, When equipped with 4G CARD. 3.3Vdd	with 3G CARD. 0V, Wher equipped with 4G	with 3G CARD. 0V, When equipped with 4G	with 3G CARD.	•	0	VIDEO CARD→VIDEO SLOT I/f
	126	IN5_DET	Non-connection termial	VIDEO SLOT I/F								•
	127	GND	GND	VIDEO SLOT I/F		) (			0	(	0 0	
	128	DE GND	DE for SYSTEM SYNC GND	VIDEO SLOT I/F		) (					0	VIDEO CARD→VIDEO SLOT I/F
	130	CLK	CLK	VIDEO SLOT I/F		3.3Vac	3.3Va	C	0	(	0 0	VIDEO CARD→VIDEO SLOT I/F
	131	GND BA7	GND BLUE DIGITAL(1,2ch)	VIDEO SLOT I/F		) (						- VIDEO CARD→VIDEO SLOT I/F
	133	BA6	BLUE DIGITAL(1,2ch)	VIDEO SLOT I/F		) (	3.3Vac	C	0	-	0 0	VIDEO CARD→VIDEO SLOT I/F
	134 135	BA5 BA4	BLUE DIGITAL(1,2ch) BLUE DIGITAL(1,2ch)	VIDEO SLOT I/F								VIDEO CARD→VIDEO SLOT I/F VIDEO CARD→VIDEO SLOT I/F
	136	BA3	BLUE DIGITAL(1,2ch)	VIDEO SLOT I/F	(	) (	3.3Vac	c	0	(	0 0	VIDEO CARD→VIDEO SLOT I/F
	137 138	BA2 BA1	BLUE DIGITAL(1,2ch) BLUE DIGITAL(1,2ch)	VIDEO SLOT I/F		0 0		C				VIDEO CARD→VIDEO SLOT I/F
	138	BA1	BLUE DIGITAL(1,2ch)	VIDEO SLOT I/F		) (						VIDEO CARD→VIDEO SLOT I/F VIDEO CARD→VIDEO SLOT I/F
	140 141	GND GND	GND GND	VIDEO SLOT I/F VIDEO SLOT I/F		0 0				(		
	142	GA7	GREEN DIGITAL(1,2ch)	VIDEO SLOT I/F	(	0	3.3Vac	C	0	- 1	0	VIDEO CARD→VIDEO SLOT I/F
	143	GA6 GA5	GREEN DIGITAL(1,2ch) GREEN DIGITAL(1,2ch)	VIDEO SLOT I/F	(							VIDEO CARD→VIDEO SLOT I/F VIDEO CARD→VIDEO SLOT I/F
	145	GA4	GREEN DIGITAL(1,2ch)	VIDEO SLOT I/F		:						VIDEO CARD→VIDEO SLOT I/F
	146	GA3	GREEN DIGITAL(1,2ch)	VIDEO SLOT I/F		) (		:	:			VIDEO CARD→VIDEO SLOT I/F
	147	GA2 GA1	GREEN DIGITAL(1,2ch) GREEN DIGITAL(1,2ch)	VIDEO SLOT I/F		0 0						VIDEO CARD→VIDEO SLOT I/F VIDEO CARD→VIDEO SLOT I/F
	149	GA0	GREEN DIGITAL(1,2ch)	VIDEO SLOT I/F		) (	3.3Vac	C	0	(	0 0	VIDEO CARD→VIDEO SLOT I/F
	152 153	GND GND	GND GND	VIDEO SLOT I/F		) <u>(</u>	(	•				
	154 155	RA7	RED DIGITAL(1,2ch)	VIDEO SLOT I/F		0 0						VIDEO CARD→VIDEO SLOT I/F
	156	RA6 RA5	RED DIGITAL(1,2ch) RED DIGITAL(1,2ch)	VIDEO SLOT I/F		) (		C				VIDEO CARD→VIDEO SLOT I/F VIDEO CARD→VIDEO SLOT I/F
	157	RA4	RED DIGITAL(1,2ch)	VIDEO SLOT I/F								VIDEO CARD→VIDEO SLOT I/F
	158 159	RA3 RA2	RED DIGITAL(1,2ch) RED DIGITAL(1,2ch)	VIDEO SLOT I/F		0 0						VIDEO CARD→VIDEO SLOT I/F VIDEO CARD→VIDEO SLOT I/F
	160	RA1	RED DIGITAL(1,2ch)	VIDEO SLOT I/F		) (			0	-	0 0	VIDEO CARD→VIDEO SLOT I/F
	161 162	RA0 GND	RED DIGITAL(1,2ch) GND	VIDEO SLOT I/F		) (						VIDEO CARD→VIDEO SLOT I/F
	165 166	GND GND	GND GND	VIDEO SLOT I/F VIDEO SLOT I/F	(	) (		0 0	0	-	0	
	167	VSEPSCL	Clock line of the I2C bus	VIDEO SLOT I/F		Clock signal used during data transmission(3.3 Vac), 3.3Vdc when no data are transmitted	during data	C	0	•	0	VIDEO CARD→VIDEO SLOT I/F
	168	VSEPSDA	Data line of the I2C bus	VIDEO SLOT I/F	(	During data exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc	During data exchange: Clock signal (3.3Vac),datanot exchanged: 3.3Vdc	C	0	(	0	VIDEO CARD⇔VIDEO SLOT I/F
	169	NC	Non-connection termial	VIDEO SLOT I/F								•
	170	GET_UART	U-ART PROCESS SELECT	VIDEO SLOT I/F		3.3Vdc:: 232C Connector⇔ PDP, 0V: 232C Connector⇔ VIDEO CARD, PDP⇔ VIDEO CARD	Connector⇔ PDP、0V: 2320 Connector⇔ VIDEC CARD、PDP⇔	Connector⇔ PDP、0V:2320 Connector⇔ VIDEO CARD、PDP⇔	Connector⇔ PDP、0V: 232C Connector⇔ VIDEO	•	0	VIDEO CARD→VIDEO SLOT I/F
		FIRST_RXD	RXD Direct to 232C	VIDEO SLOT I/F	(	duaring data recieved (3.3Vac), 3.3Vdc	duaring data recieved (3.3Vac), 3.3Vdc when no data are	duaring data recieved (3.3Vac), 3.3Vdc	clock signal used duaring data recieved (3.3Vac), 3.3Vdc when no data are received.	(	0	VIDEO SLOT I/F→VIDEO CARE
	173	EMGREQ1 S	Non-connection termial	VIDEO SLOT I/F								•
	174 175	EMGREQ2 S IC1S_OE	Non-connection termial IC1 DIGITAL VIDEO CONTOROL	VIDEO SLOT I/F		3.3Vdd	3.3Vdd	C	0	(	0 0	VIDEO SLOT I/F→VIDEO CARD
		NC	Non-connection termial	VIDEO SLOT I/F								<u> </u>
	177	NC NC	Non-connection termial Non-connection termial	VIDEO SLOT I/F VIDEO SLOT I/F								
	179	SLOT_ST3	CARD TYPE SELECT	VIDEO SLOT I/F	(	A/D Input Port, No VIDEO CARD 3.3Vdd	Port, No VIDEO CARD	Port, No VIDEO CARD	Port, No VIDEO CARD		0	VIDEO CARD→VIDEO SLOT I/F
	181	M CHOICE SOUND2	Non-connection termial  AUDIO SELECTOR  GND	VIDEO SLOT I/F VIDEO SLOT I/F VIDEO SLOT I/F		INPUT3,5 Audic select 3.4Vdc	select 3.4Vdd	select 3.4Vdd				VIDEO SLOT I/F→VIDEO CARE
	183	GND GND	GND	VIDEO SLOT I/F		) (						
	185	DSUBH GND	Non-connection termial GND	VIDEO SLOT I/F		) (	(	C	0	(	0 0	:
	187	DSUBV GND	Non-connection termial GND	VIDEO SLOT I/F VIDEO SLOT I/F		0 0					0 0	•
	188	GND	GND	VIDEO SLOT I/F		) (	(	) C	0		0 0	

В

С

D

Ε

PDP-507CMX

8

5

1 2 3 4

					AC power ON			except for case w	hwn units are indiv	idually indicated)	AC Power OFF	
Name	Pin No.	Pin name	FuNon-connection	n termialtion	(Power coad connected to the wal outlet)	MAIN POW	/ER "ON"★ With signal	Power management ★★★	Standby ★★★	Main power OFF ★★	(Power cord pulled out of the wall outlet	Signal direction (DR : Data Relay)
	190	HYOUJI_X	2 SCREENS Permit/Prohibit	VIDEO SLOT I/F	0	Permit 0Vdc, Prohibit 3.3Vdc	Permit 0Vdc, Prohibit 3.3Vdc		Permit 0Vdc, Prohibit 3.3Vdc	(	0	VIDEO CARD→VIDEO SLOT I/F
	191	GPC3	VIDEO CARD⇔COMM CARD LINE	VIDEO SLOT I/F	0	0	0	0	0	C	0	VIDEO CARD⇔VIDEO SLOT I/F
	192	GPC4	VIDEO CARD⇔COMM CARD LINE	VIDEO SLOT I/F	0	0	0	0	0	C	0	VIDEO CARD⇔VIDEO SLOT I/F
	193	NC	Non-connection termial	VIDEO SLOT I/F								-
	194	VYOBI4	Non-connection termial	VIDEO SLOT I/F				-				-
1	195	VYOBI5	Non-connection termial	VIDEO SLOT I/F					-			-

В

Α

С

ח

Е

82

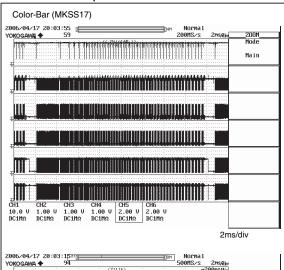
PDP-507CMX

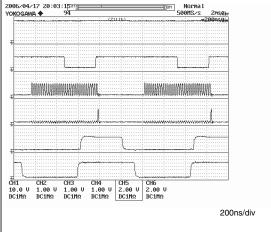
3

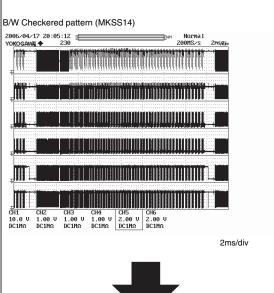
# 4.18 WAVEFORMS

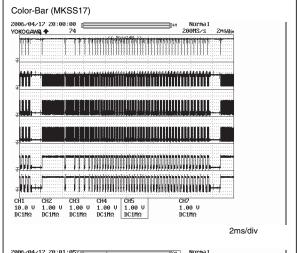
50 ADDRESS L Assy Waveform

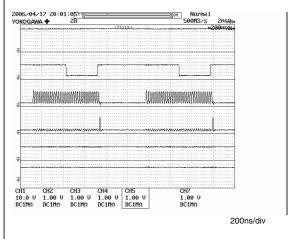
	Measuring CH	Waveform	Measuring Point	Waveform	Measuring Point	
1	CH1	Resonance waveform (V+ADR)	L1730	Resonance waveform (V+ADR)	L1730	
(2)	CH2	R ch signal	R1608	R ch signal	R1608	
(3)	CH3	CLK	R1637	CLK	R1637	
( <del>4</del> )	CH4	LE	R1621	LE	R1621	
(5)	CH5	ADR-D	R1720	HBLK	R1615	(8)
( <del>6</del> )	CH6	ADR-B	R1714	_	-	Ĭ
	CH7	-	-	LBLK	R1616	7
		1				

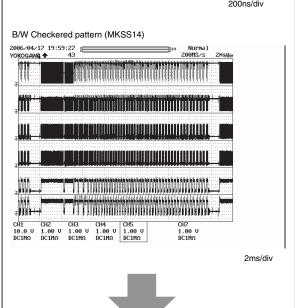












83

В

С

D

Ε

PDP-507CMX

7

8

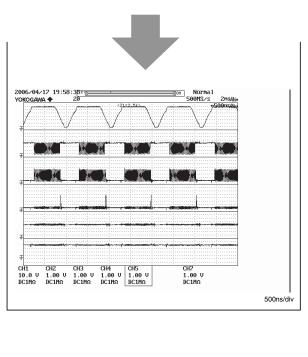
1 2 3 4

2006-04-17 20:07:22\*\*\*

VONGGAWA 15

CHI CH2 CH3 CH4
10:0 U 1:00 U 1:00 U 1:00 U 2:00 U
DCIM2 DCIM2 DCIM2 DCIM2 DCIM2 DCIM2

SOUns/div



4

84

Α

В

С

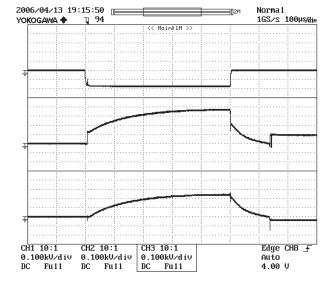
D

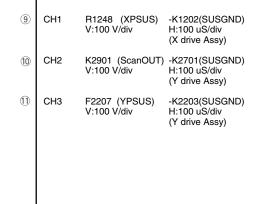
Ε

200ns/div

## 50 X/Y DRIVE Assy Waveform

5





8

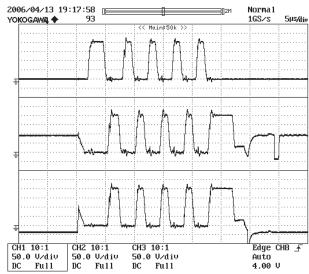
В

С

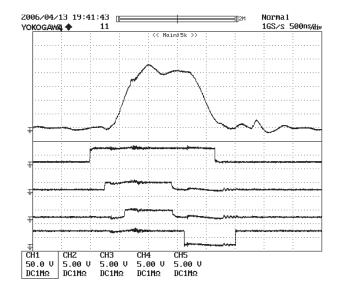
D

Ε

F







15)	CH1	F2207 (YPSUS) V:100 V/div	-K2203(SUSGND) H:500 nS/div (Y drive Assy)
16	CH2	K2021 (YSUS_G) V:5 V/div	-K2014(GND) H:500 nS/div (Y drive Assy)
17)	CH3	K2009 (YSUS_U) V:5 V/div	-K2014(GND) H:500 nS/div (Y drive Assy)
18	CH4	K2013 (YSUS_B) V:5 V/div	-K2014(GND) H:500 nS/div (Y drive Assy)
19	CH5	K2010 (YSUS_D) V:5 V/div	-K2014(GND) H:500 nS/div (Y drive Assy)

85

PDP-507CMX

5

### 50 X/Y DRIVE Assy Waveform

2

3

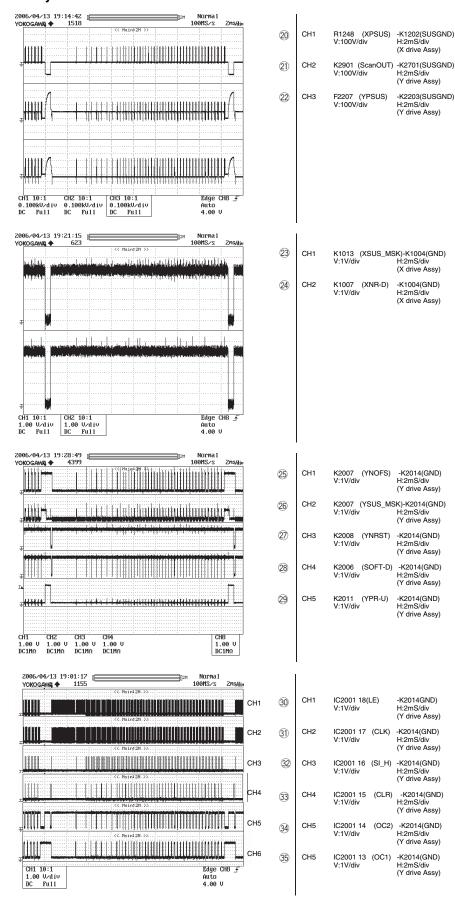
1

Α

В

D

Ε



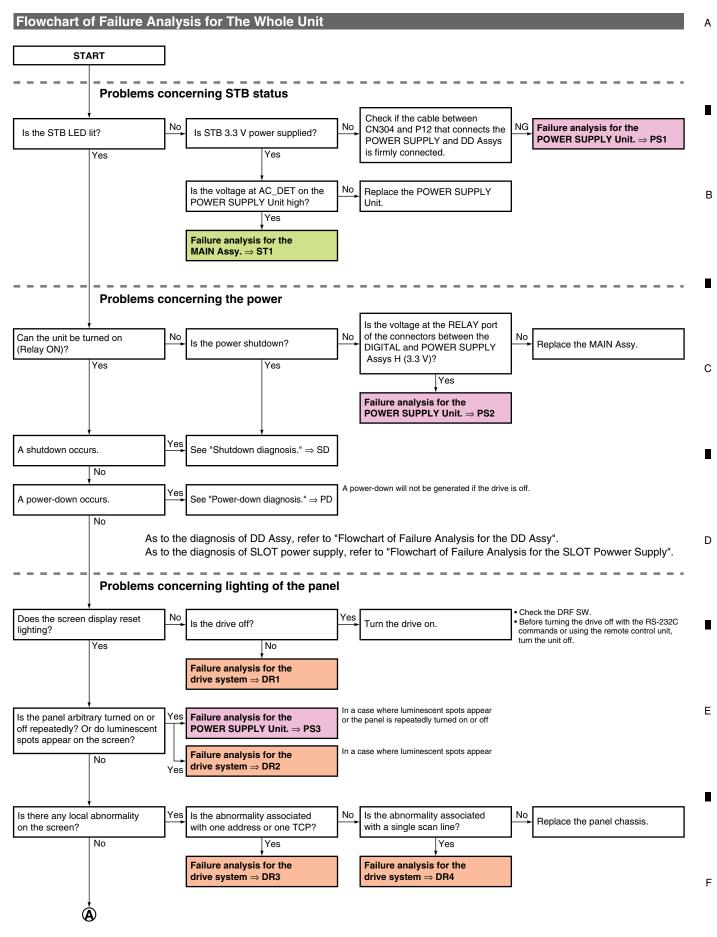
86

PDP-507CMX

2

3

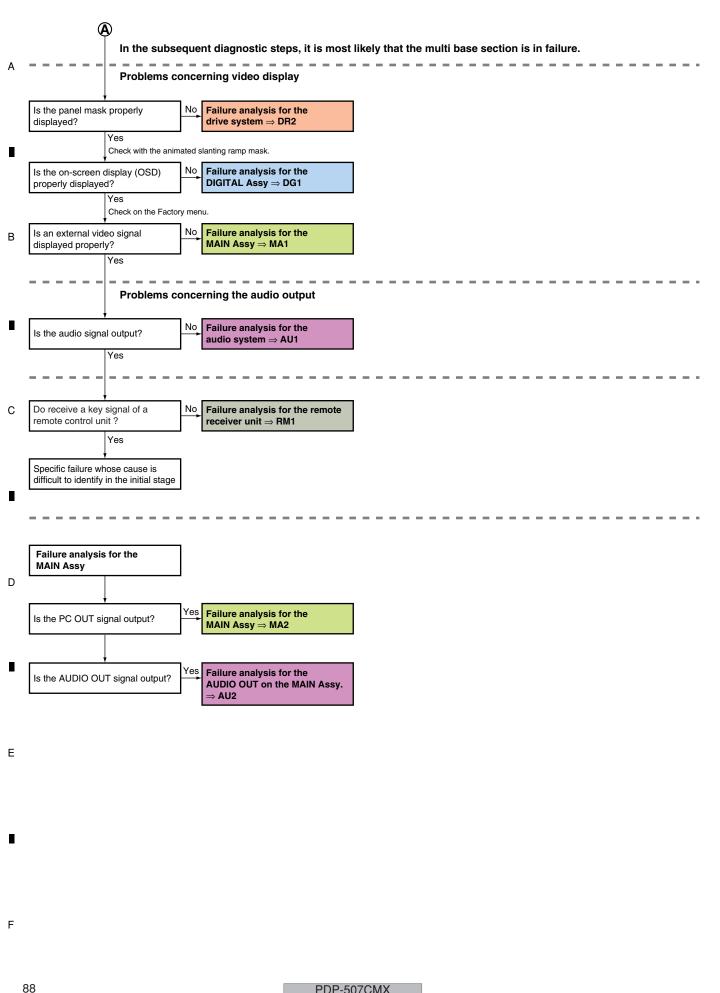
# 5. DIAGNOSIS INFORMATION 5.1 THE FLOW OF DIAGNOSIS



PDP-507CMX

5

87



PDP-507CMX

5

89

В

С

D

Ε

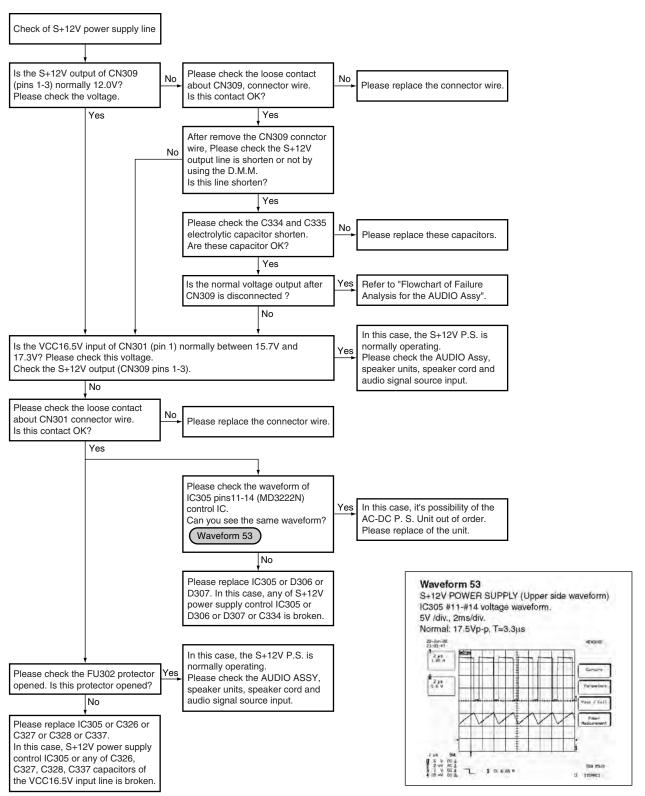
В

D

Ε

PDP-507CMX

## ■ Troubleshooting of the S+12V output abnormal operation



91

8

В

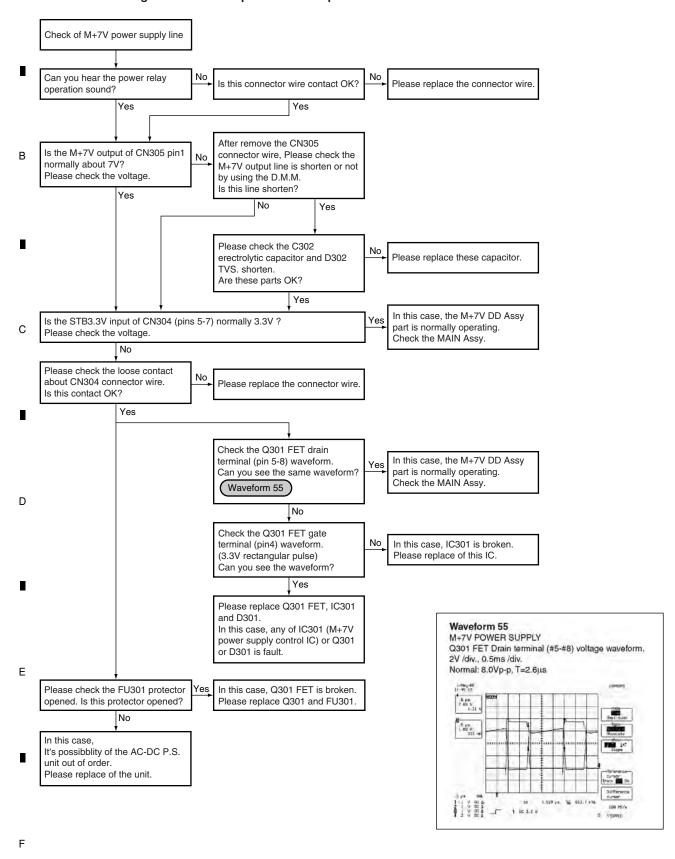
С

D

Ε

1 2 3 4

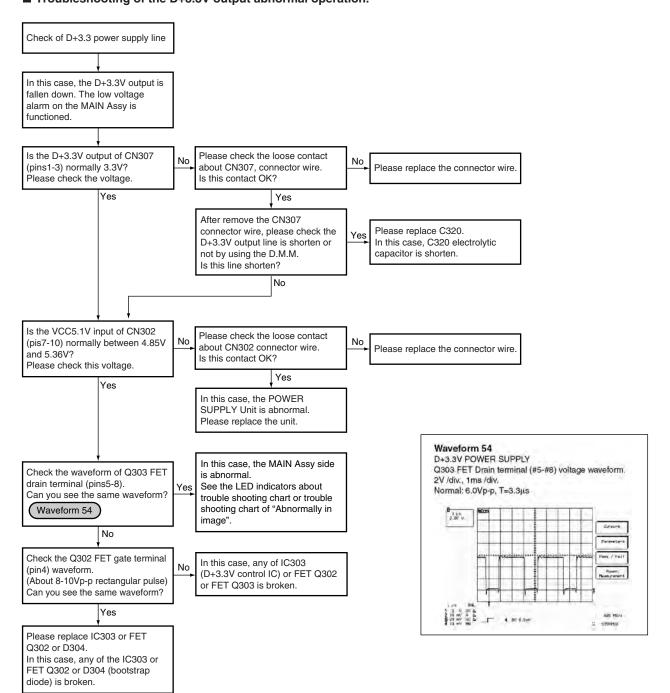
## ■ Troubleshooting of the M+7V output abnormal operation.



92

PDP-507CMX

■ 2



В

С

D

Ε

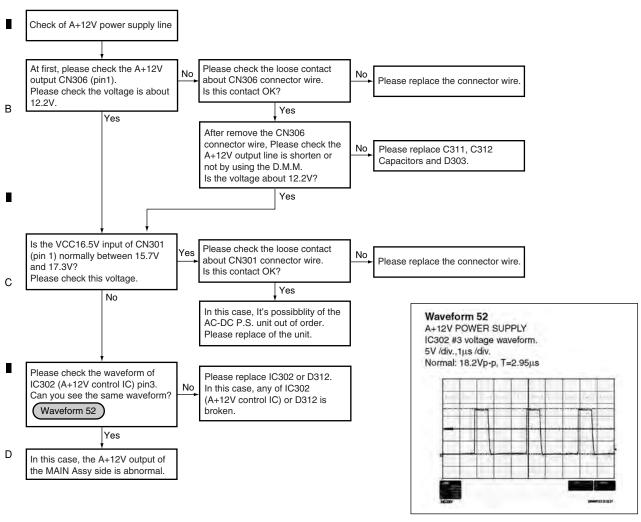
PDP-507CMX 7

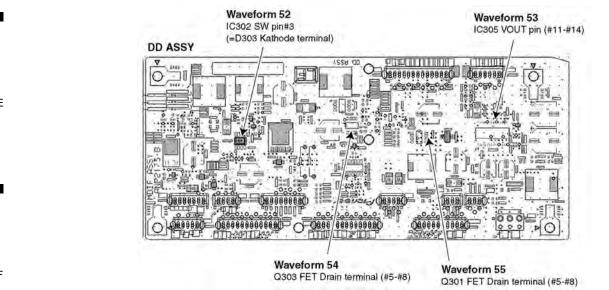
5

**■** 2 **■** 3 **■** 4

#### ■ Troubleshooting of the A+12V output abnormal operation.

This voltage Line is supplied for the fan motors VCC voltage through the variable voltage regurator on the MAIN Assy. The output voltage of the variable voltage regurator is DC11.6V or DC8.8V or DC6.0V. And, no operation fan motors by acting fan alarm signal is not mentioned on this item.



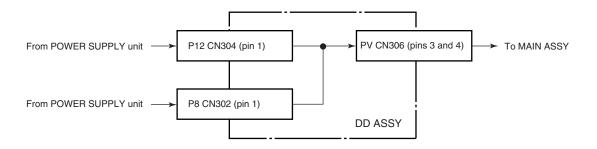


94

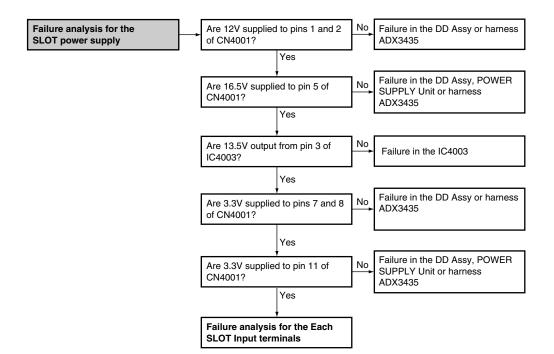
PDP-507CMX

**–** 2 **–** 

This voltage Line is supplied to MAIN Assy from MAIN POWER SUPPLY Unit via DD Assy. Please check board to board connection first if A+6.5V is abnormal. e.g.) pin contact of connector, short between wire



## Flowchart of Failure Analysis for The SLOT Power Supply



95

В

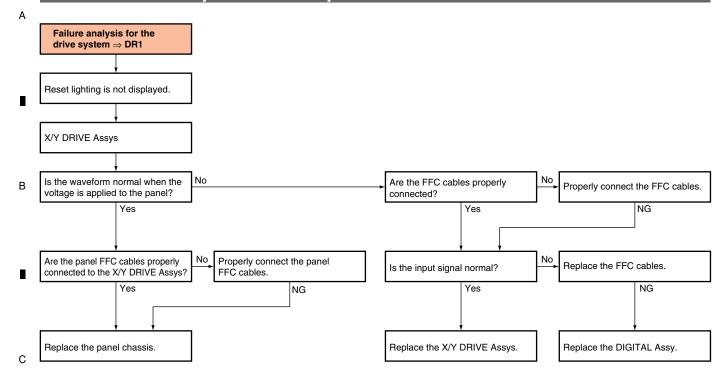
С

D

Ε

F

## Flowchart of Failure Analysis for The Drive System



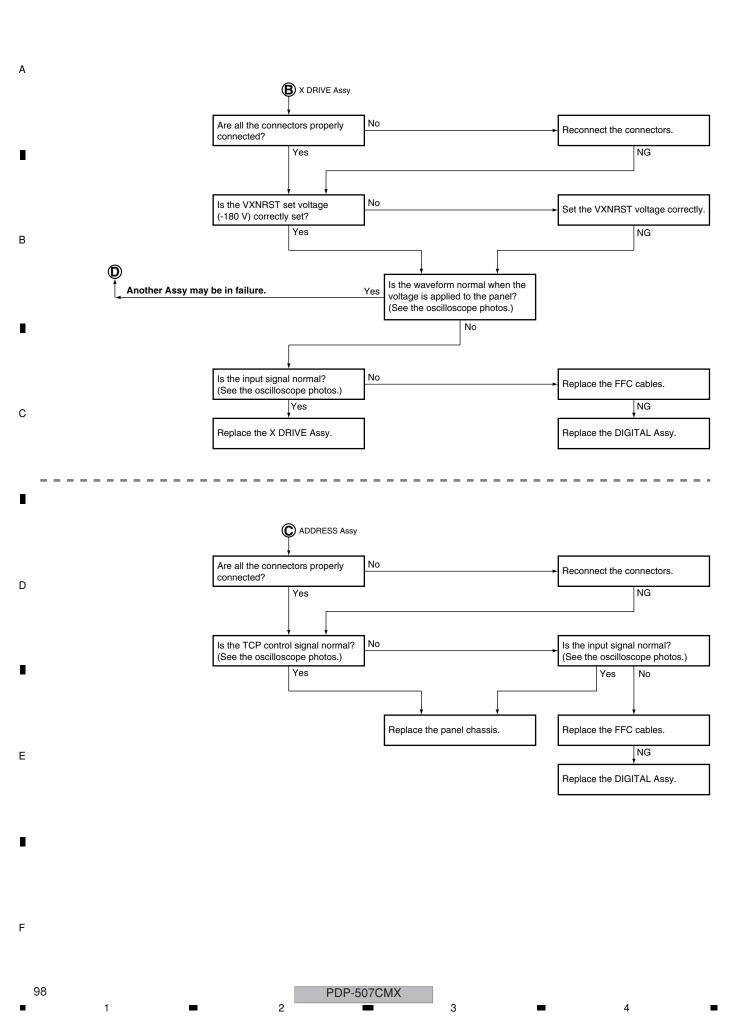
96

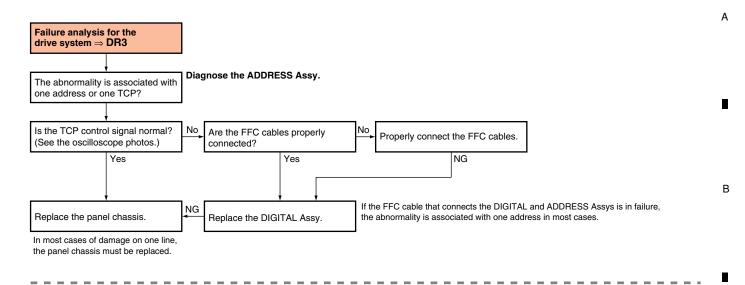
D

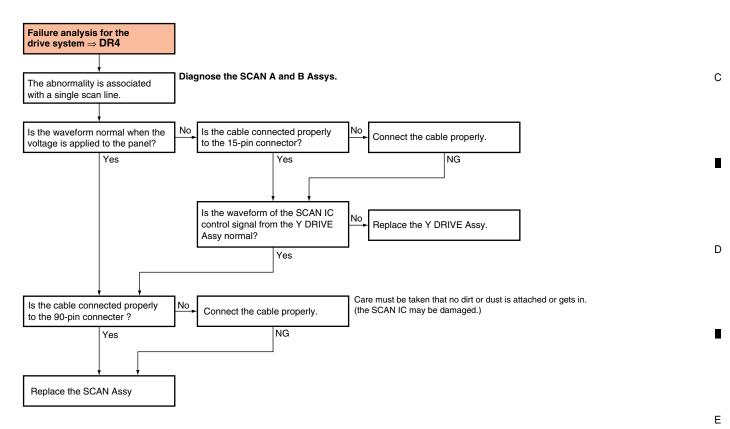
Ε

8

F







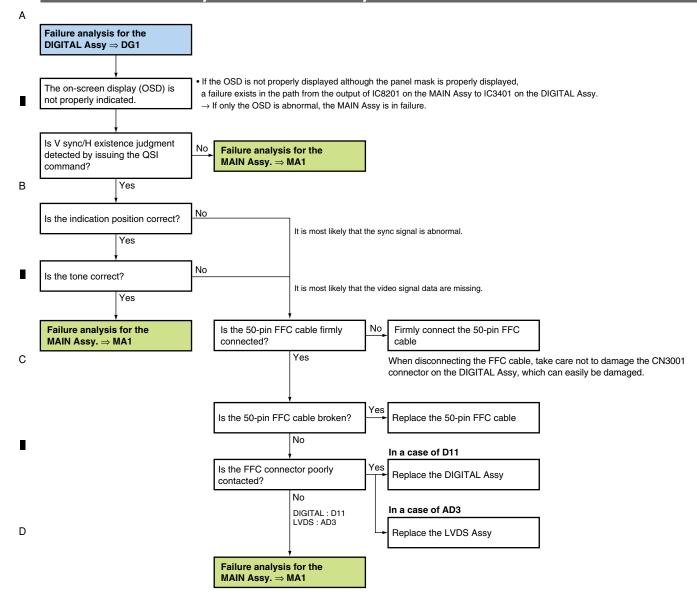
F

\_\_

PDP-507CMX

5

## Flowchart of Failure Analysis for The DIGITAL Assy

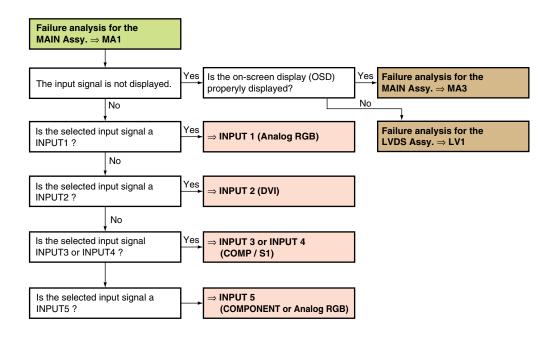


100

Ε

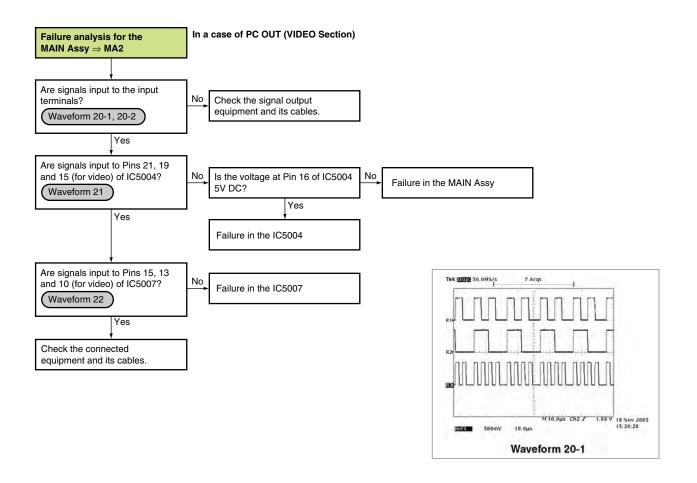
## Flowchart of Failure Analysis for The MAIN Assy

5



6

7



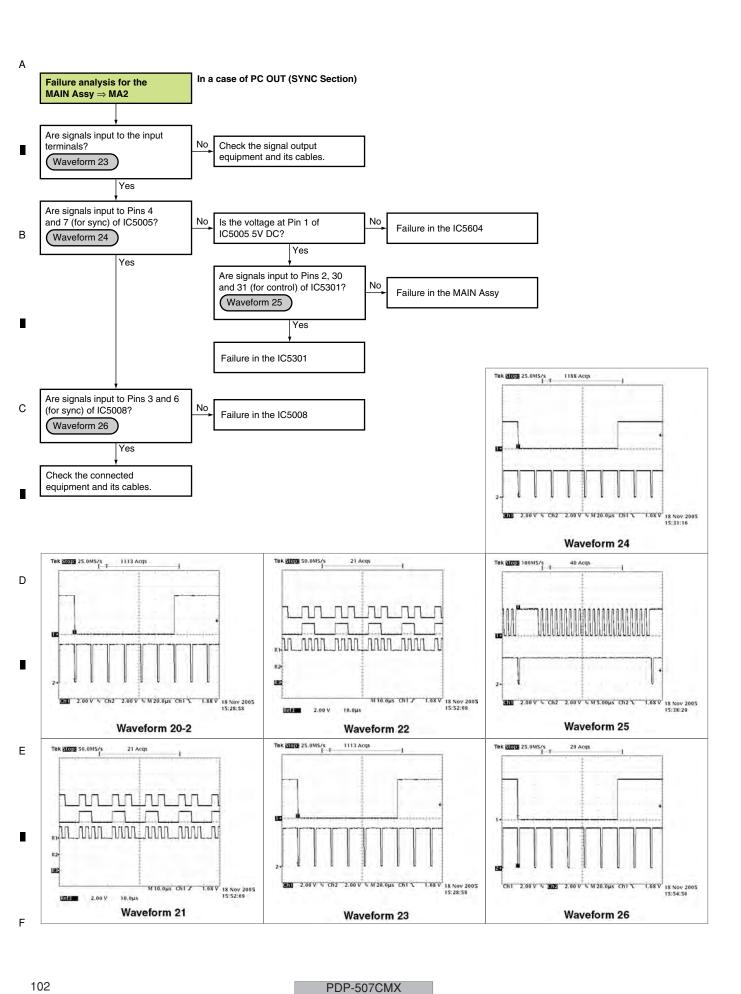
101

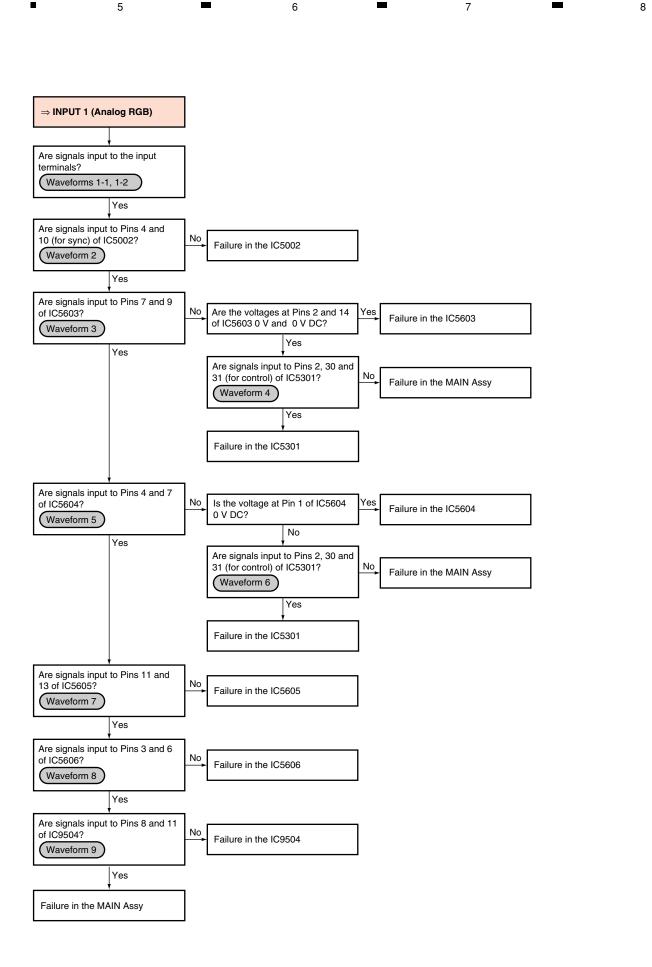
В

D

Ε

F





8

F

В

С

D

Ε

PDP-507CMX 7

∿ Ch2 2.00 V ∿ M 5.00µs Ch2 \ Waveform 1-1 Waveform 4 Waveform 8 1113 Acqs Tek 1000 10.0MS/s Tek 3000 25.0MS/s Tek 300 25.0MS/s 22 Acqs 1.28 V 18 Nov 2005 15:19:59 18 Nov 2005 15:40:30 Waveform 9 Waveform 1-2 Waveform 5 1188 Acqs 40 Acqs 2.00 V % M 20.0µs Ch1 % 2.00 V % Ch2 2.00 V % M 5.00µs Ch2 \ Waveform 2 Waveform 6 Tek Stope 25.0MS/s 1.68 V 18 Nov 2005 15:32:34 Waveform 3 Waveform 7

3

2

PDP-507CMX 104

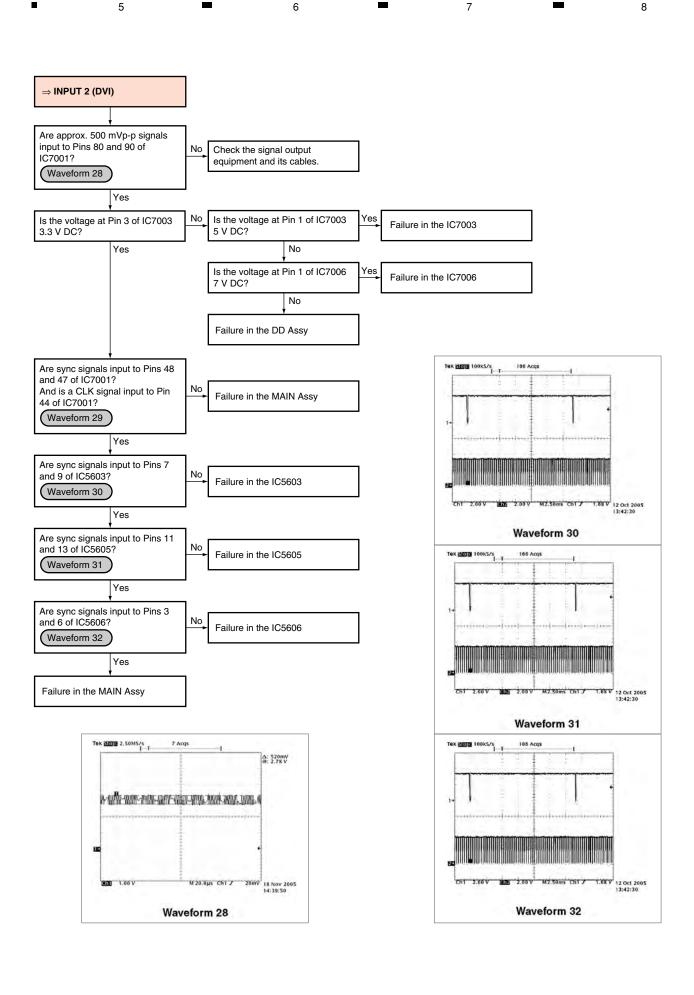
Α

В

С

D

Е



8

В

С

D

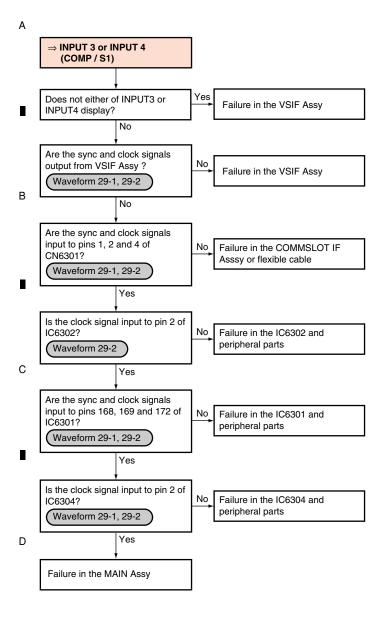
Ε

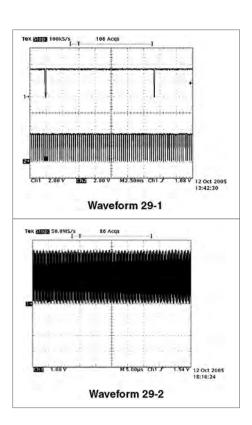
F

PDP-507CMX

**—** 

5





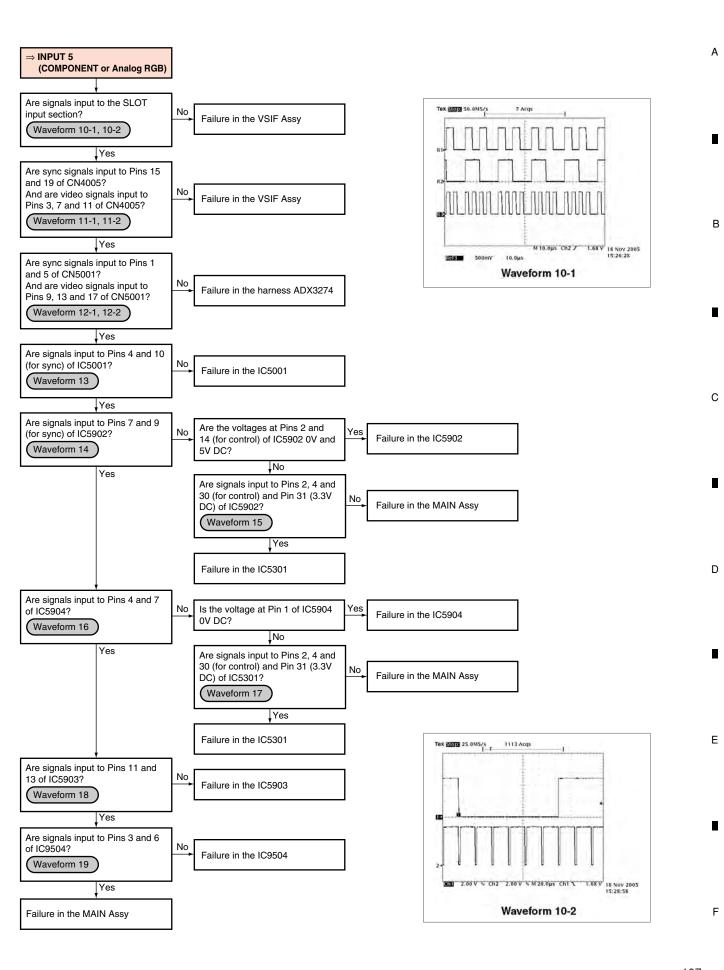
F

Ε

106

PDP-507CMX

■ 2 ■ 3 ■ 4



PDP-507CMX 7

Tek 300 \$0.0MS/s 28 Nov 2005 18:58:26 Waveform 17 Waveform 13 Waveform 11-1 Tek 300 25.0MS/s Tek 300 25.0MS/s Tek 500 10.0MS/s 2.00 V % M 50.0µs Ch1 / Waveform 11-2 Waveform 14 Waveform 18 Δ: 40mV Φ: 3.92 V Waveform 15 Waveform 12-1 Waveform 19 1.68 V 18 Nov 2005 15:32:34 Waveform 12-2 Waveform 16

3

108

Α

В

С

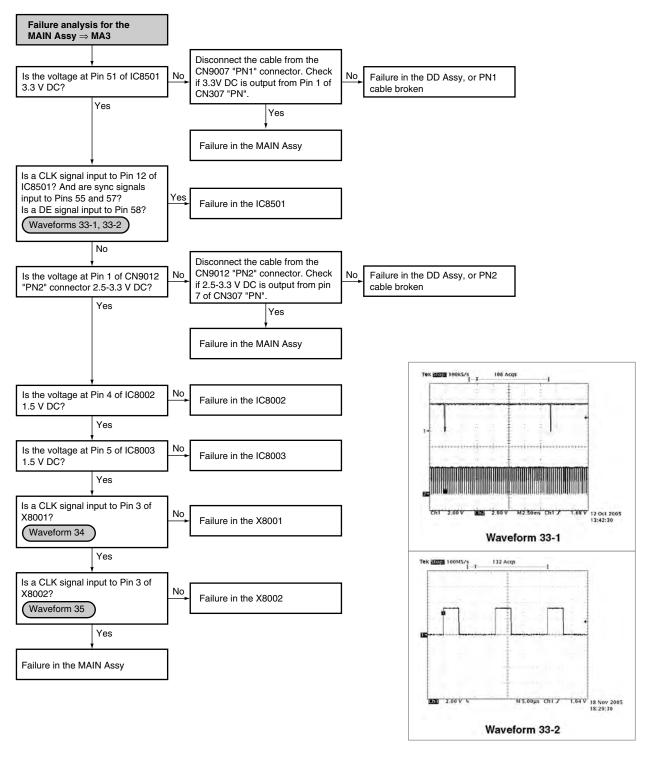
D

Ε

PDP-507CMX

#### In a case when no image from any input appears

5



109

8

В

С

D

Ε

F

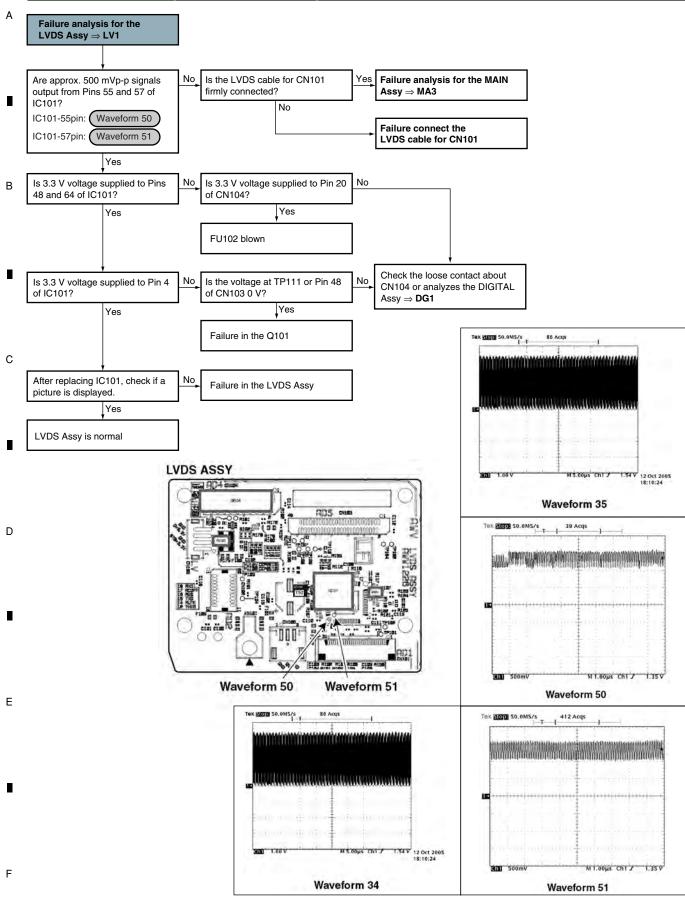
PDP-507CMX 7

5

•

1 2 3 4

# Flowchart Failure Analysis for The LVDS Assy



110

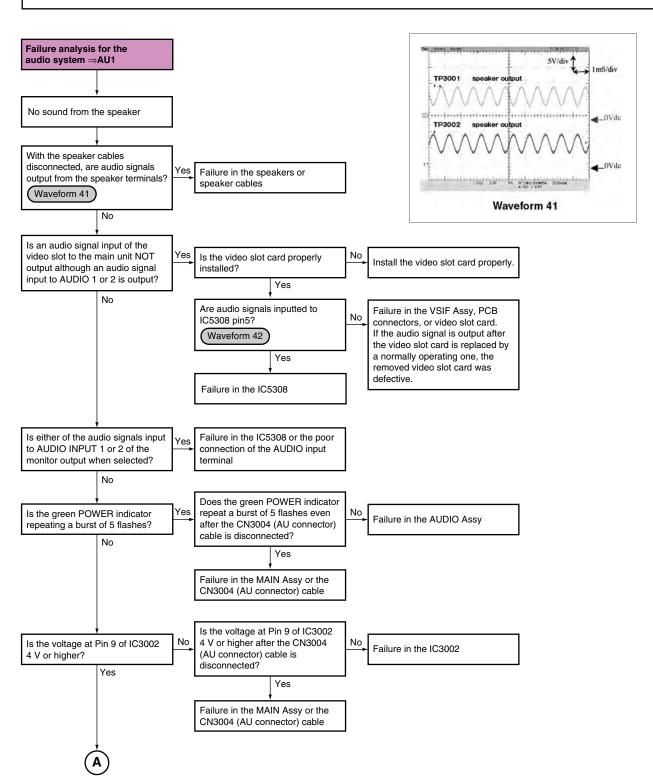
PDP-507CMX

**=** 

5

Note: Before performing a failure diagnosis, be sure to check that the settings of the unit are properly made by referring to its specifications and instruction manual.

If speaker outputs with different polarities or a speaker output and ground are short-circuited, the protection circuit is activated, and audio will not be output. In this case, turn the power off at the Main Power Switch, make connections properly, then turn the power back on again. The protection circuit will then be released.

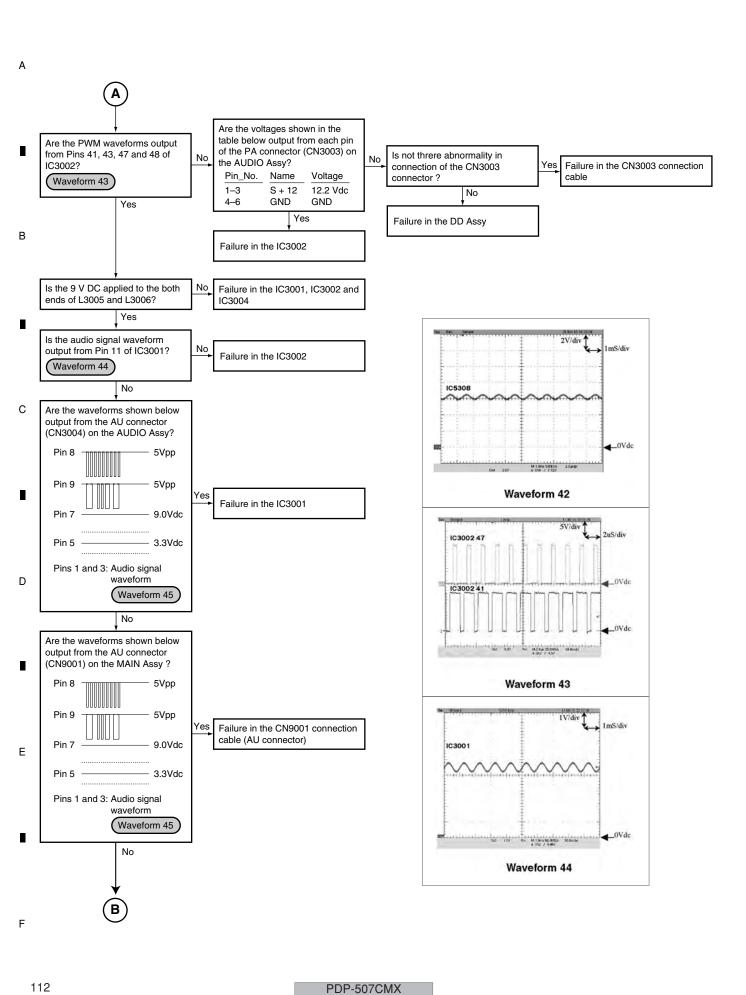


111

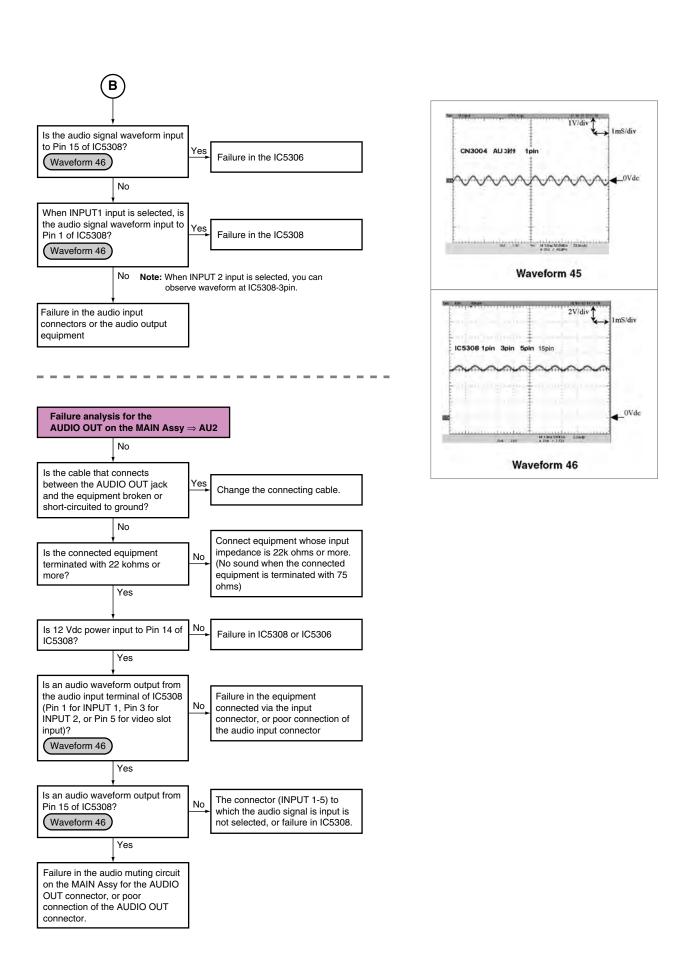
В

С

D



1 2 3 4



7

113

В

С

D

Ε

PDP-507CMX 7

5

5

2

3

4

114

D

Ε

PDP-507CMX

2

3

# ■ Block Diagram of the Power-Down Signal

5

The figures ② to ① indicate the number of times the LED flashes when power-down occurs in the corresponding route. Relay Control POWER SUPPLY UNIT Protection Circuit Note: P4 PD **50 DIGITAL ASSY** EXT\_PD D21 PD\_TRG\_B PS\_PD **(Q)** PD MUTE Circuit **C3155** PD\_MUTE Module Microcomputer D3151 D3162 IC3151 8 ᅌ DRF\_B ADR\_PD <u>@</u> 6 to D3502 <u>(10</u> <u>4</u>)0 9 XDD\_CNV\_PD D3501 OR YDD\_CNV\_PD XSUSTN\_PD YSUSTN\_PD D19 XDRIVE\_PD YDRIVE\_PD SCN5V\_PD SCAN\_PD D15 to D18 AD1 **50 ADDRESS ASSY** ₹ × **50Y DRIVE ASSY 50X DRIVE ASSY** PDP-507CMX

6

115

8

F

8

В

С

D

Е

3 • 4

# 5.2.2 POWER DOWN OF FAILURE ANALYSIS

# ■ Prediction of failure symptoms when a PD (power-down) is generated

LED Flashing Count	PD Circuit	Checkpoint	Main Cause
2	Power supply PD	POWER SUPPLY Unit	Failure in the POWER SUPPLY Unit
		50 SCAN A, B Assy	SCAN IC is damaged (short-circuiting between VH and GNDH)
3 SCAN PD		50Y DRIVE Assy	Connectors disconnected between the POWER SUPPLY Unit and the Y DRIVE Assy Connectors disconnected between the DIGITAL and the Y DRIVE Assys Failure in the VH power
		TOCOANIA DATE	SCAN IC is damaged (short-circuiting between IC5V and GNDH)
4 IC5V PD		50SCAN A, B Assy	Disconnection of the scan-bridge (15-pin) connector
		50Y DRIVE Assy	Failure in the photo coupler
		SUT DRIVE ASSY	Abnormality in the IC5V DC/DC converter
5	Y-DRIVE PD	50Y DRIVE Assy	Abnormality in the 16.5 V power
			Abnormality in the VOFS DC/DC converter
6	Y DCDC PD	50Y DRIVE Assy	Abnormality in the VPRST DC/DC converter
	Y DCDC PD		Abnormality in VC_15V DC/DC converter
7	Y SUS PD	FOY DRIVE Assu	Abnormality in the DK module
'	Y 505 PD	50Y DRIVE Assy	Abnormality in the control signal line
8	Address PD	50 ADDRESS Assy	Short-circuiting of Vadr TCP damaged
	V 5500/E 55	50V DDIVE A	Connectors disconnected between the DIGITAL and the X DRIVE Assys
9	X-DRIVE PD	50X DRIVE Assy	Abnormality in the 16.5 V power
10	V DODO DD	FOY DDIVE Assu	Abnormality in VC_15V power
10	X DCDC PD	50X DRIVE Assy	Abnormality in VXNRST power
			Abnormality in the DK module
11	X SUS PD	50X DRIVE Assy	Abnormality in the control signal line
		OOK DI II V E AGGY	Connectors disconnected between the POWER SUPPLY Unit and the X DRIVE Assy

# ■ How to distinguish which connector is disconnected

Assy	Connector	To which Assy the Connector is Connected	Frequency of LED Flashing	Screen Display
	CN1001	50 DIGITAL Assy	11 (XDRIVE)	_
	CN1205	POWER SUPPLY Unit (ADR system power)	_	White (left half of the screen)
50X DRIVE Assy	CN1204	POWER SUPPLY Unit (drive system power)	12 (X-SUS)	_
	CN1206	50 ADDRESS Assy	8 (ADR)	-
	CN2001	50 DIGITAL Assy	3 (SCAN)	_
	CN2204	POWER SUPPLY Unit (drive system power)	3 (SCAN)	_
50Y DRIVE Assy	CN2206	POWER SUPPLY Unit (ADR system power)	_	White (right half of the screen
001 D1111 Z 7100y	CN2205	50 ADDRESS Assy	8 (ADR)	-
	CN2601	50 SCAN A, B Assy	4 (SCN-5V)	-
50 SCAN A, B Assy	CN2801	50Y DRIVE Assy	4 (SCN-5V)	-
50 ADDRESS	CN1602, CN1802	50 DIGITAL Assy	8 (ADRS)	
Assy	CN1601, CN1801	50X DRIVE Assy, 50Y DRIVE Assy	8 (ADRS)	-

116

Е

PDP-507CMX

2

3

SCAN Ass'y  SCAN Ass'y  Y DRIVE Ass'y  Connector disconnection detection  SCAN Ass'y  Connector disconnection detection  Y-DCDC  Y DRIVE Ass'y  VOFS UVP  V-SUS  Y DRIVE Ass'y  Connector disconnection detection  VDFS UVP  VDFS UVP  VDFS UVP  Address PD  Address PD  Connector disconnection detection  Connector disconnection detection  Connector disconnection detection  ADDRESS Ass'y  Connector disconnection detection		Operation PD	Defective Assy	Outline of P.D.	Checkpoint	Possible Defective Parts	Remarks
SCAN Ass'y  Y DRIVE Ass'y  Connector disconnection detection  SCAN Ass'y  Y-DCDC  Y DRIVE Ass'y  VOFS UVP  V-SUS  Y DRIVE Ass'y  VOFS UVP  V-SUS  Y DRIVE Ass'y  VOFS UVP  VARIATE ASS'Y  Address PD  Address PD  Address PD  Connector disconnection detection  Address PD  Connector disconnection detection  ADDRESS Ass'y  Connector disconnection detection  X-DCDC  X DRIVE Ass'y  Connector disconnection detection  ADDRESS Ass'y  Connector disconnection detection PD  X-SUS  X DRIVE Ass'y  Connector disconnection detection PD  ACT  ACT  ACT  ACT  ACT  ACT  ACT  AC	2	POWER	P SUPPLY Ass'y				
SCAN Y DRIVE Ass'y Connector disconnection detection SCAN Ass'y Y DRIVE Ass'y Y DRIVE Ass'y Y-DCDC Y DRIVE Ass'y Vorst UVP Address PD Address PD Connector disconnection detection PD ADDRESS Ass'y Connector disconnection detection X-DCDC X DRIVE Ass'y Connector disconnection detection X-DCDC X DRIVE Ass'y Connector disconnection detection X-DCDC X DRIVE Ass'y Connector disconnection DD X-SUS X DRIVE Ass'y Conter voltage detection PD X-SUS X DRIVE Ass'y Conter voltage detection PD X-SUS X DRIVE Ass'y Conter voltage detection PD			SCAN Ass'y		SCAN IC	SCAN IC	VH-GNDH short
SCAN Ass'y  Y-DCDC  Y-DCDC  Y-SUS  X-DCDC  X-DCDC  X-DCDC  Y-DRIVE Ass'y  Y-DRIVE Ass'y  Y-DRIVE Ass'y  Y-DRIVE Ass'y  Y-DRIVE Ass'y  Y-DRIVE Ass'y  Address PD  Address PD  Connector disconnection detection  Address PD  Connector disconnection detection  Connector disconnection detection  X-DCDC  X-DRIVE Ass'y  Connector disconnection detection  Address PD  Connector disconnection detection  Connector voltage detection PD  X-SUS  X-DRIVE Ass'y  Connector disconnection detection PD  Connector voltage detection PD	c	200		VHUVP	Y SUS BLOCK	IC2252, IC2253	VSUS-SUSOUT, SUSOUT-SUSGND short
SCAN Ass'y Y-DCDC Y DRIVE Ass'y Y-SUS Y DRIVE Ass'y X-DCDC X DRIVE Ass'y X-DCDC X DRIVE Ass'y Connector disconnection detection Address PD Connector disconnection detection Connector disconnection DD Address PD Connector disconnection DD Connector disconnection DD X-SUS X DRIVE Ass'y Conter voltage detection PD X-SUS X DRIVE Ass'y Conter voltage detection PD	o		Y DRIVE Ass'y		VH DC/DC	IC2502, L2501	
SCAN Ass'y  Y-DCDC  Y-SUS  Y-DBIVE Ass'y  VOFS UVP  VOFS UVP  VOFS UVP  VDRIVE Ass'y  VDRIVE Ass'y  VDRIVE Ass'y  Address PD  Address PD  Connector disconnection detection  A-SUS  X-DCDC  X-DRIVE Ass'y  Connector disconnection detection  A-SUS  X-DRIVE Ass'y  Connector disconnection detection  A-SUS  X-DRIVE Ass'y  Connector disconnection detection  Connector disconnection detection  A-SUS  X-DRIVE Ass'y  Connector disconnection detection  Connector disconnection detection  A-SUS  X-DRIVE Ass'y  Connector disconnection detection PD				Connector disconnection detection	CN2001, CN2350		
SCN-5V Y DRIVE Ass'y Y-DCDC Y DRIVE Ass'y V-SUS Y DRIVE Ass'y V-SUS Y DRIVE Ass'y V-SUS Y DRIVE Ass'y Address PD Address PD Connector disconnection detection X-DCDC X DRIVE Ass'y Connector disconnection detection X-DCDC X DRIVE Ass'y Connector disconnection DD X-SUS X DRIVE Ass'y Conter voltage detection PD			2,50 V IAV C	Connector disconnection detection	CN2401, CN2402		
Y-DCDC Y DRIVE Ass'y  Y-DCDC Y DRIVE Ass'y  Y-SUS Y DRIVE Ass'y  Address PD  ADDRESS Ass'y  Connector disconnection detection  X-DCDC X DRIVE Ass'y  Connector disconnection detection  X-DCDC X DRIVE Ass'y  Connector disconnection detection  X-DCDC X DRIVE Ass'y  Connector disconnection detection  Connector disconnection detection  Connector disconnection detection PD  X-SUS X DRIVE Ass'y  Conter voltage detection PD	4	SCN-5V	OCAIN ASS y	07117301	SCAN IC	SCAN IC	
Y-DCDC Y DRIVE Ass'y Vprst UVP  Y-SUS Y DRIVE Ass'y Center voltage detection PD Address PD  ADDRESS Ass'y Connector disconnection detection  X-DCDC X DRIVE Ass'y Center voltage detection PD  X-SUS X DRIVE Ass'y Center voltage detection PD			Y DRIVE Ass'y		IC5V DC/DC	Q2605, R2647	
Y-DCDC Y DRIVE Ass'y Vprst UVP  Y-SUS Y DRIVE Ass'y Center voltage detection PD  ADDRESS Ass'y Connector disconnection detection  X-DCDC X DRIVE Ass'y Connector voltage detection PD  X-DCDC X DRIVE Ass'y Center voltage detection PD				WOEE IND	VOFS DC/DC	Q2606, R2619, R2620	
Y-SUS Y DRIVE Ass'y Center voltage detection PD Address PD Connector disconnection detection  X-DCDC X DRIVE Ass'y Center voltage detection PD Connector Sconnection DD Connector DD Connec	9	Y-DCDC	Y DRIVE Ass'y		Y SUS BLOCK	IC2252, IC2253, Q2280, Q2281	MSKS-SUSOUT short
Y-SUS       Y DRIVE Ass'y       Center voltage detection PD         ADR       ADDRESS Ass'y       Address PD         Connector disconnection detection       Connector disconnection detection         X-DCDC       X DRIVE Ass'y       VRN UVP         X-SUS       X DRIVE Ass'y       Center voltage detection PD				Vprst UVP	Vprst Regulator	Q2531, Q2532, IC2535	
ADRS ADDRESS Ass'y Connector disconnection detection  X-DCDC X DRIVE Ass'y Center voltage detection PD  X-SUS X DRIVE Ass'y Center voltage detection PD	_	0110 >	7,00 V =/110 C /	CO soitonto	Y RESONANCE BLOCK	IC2101	
ADDRESS Ass'y    ADDRESS Ass'y   Connector disconnection detection	$\overline{}$	505-1	T DINE ASS y	Cerrier voitage detection FD	Y SUS BLOCK	Q2221	
X-DCDC X DRIVE Ass'y Center voltage detection PD	0	000	339900	Address PD	ADDRESS RESONANCE BLOCK	D1634	V+ADR-GND_ADR short
X-DCDC X DRIVE Ass'y VRN UVP  X-SUS X DRIVE Ass'y Center voltage detection PD	•	פרוטא	ADDRESS ASS y	Connector disconnection detection	CN1501		
X-SUS X DRIVE Ass'y Center voltage detection PD	Ç	>	Y OBIVE A	0/11/0//	VRN DC/DC	Q1323, R1332, R1333	
X-SUS X DRIVE Ass'y Center voltage detection PD	2	200-4	A DINCE ASS Y		X SUS BLOCK	Q1272	
	11	X-SUS	X DRIVE Ass'y	Center voltage detection PD	X RESONANCE BLOCK	IC1101	

5

OVP : OVER VOLTAGE PROTECT UVP : UNDER VOLTAGE PROTECT

117

F

PDP-507CMX

7

7

8

В

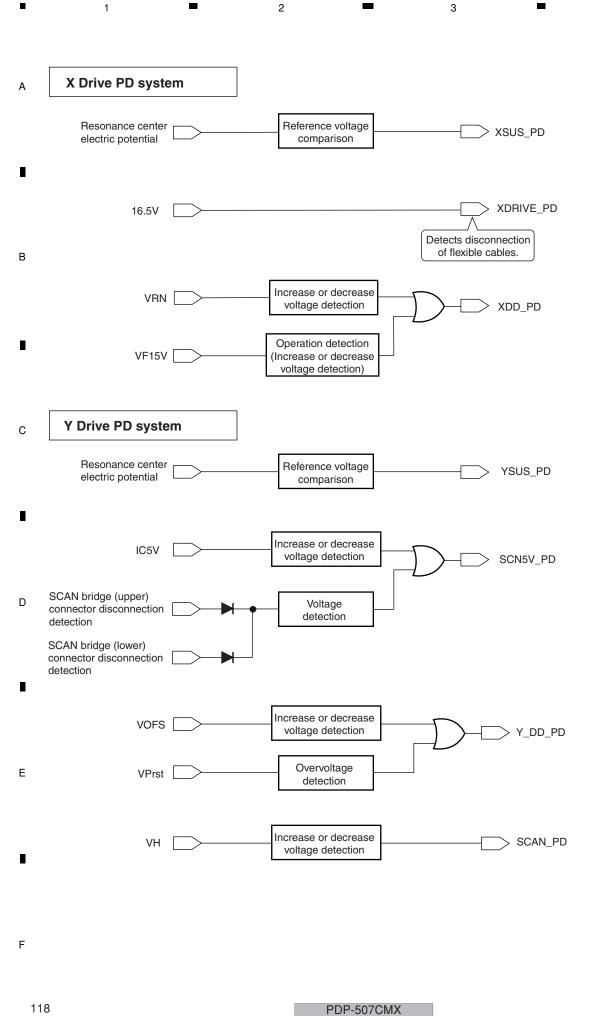
С

D

Ε

8

6



1 2 2

Note: The figures ① to ③ indicate the number of times the LED flashes when shut-down

occurs in the corresponding route.

5

6

7

8

В

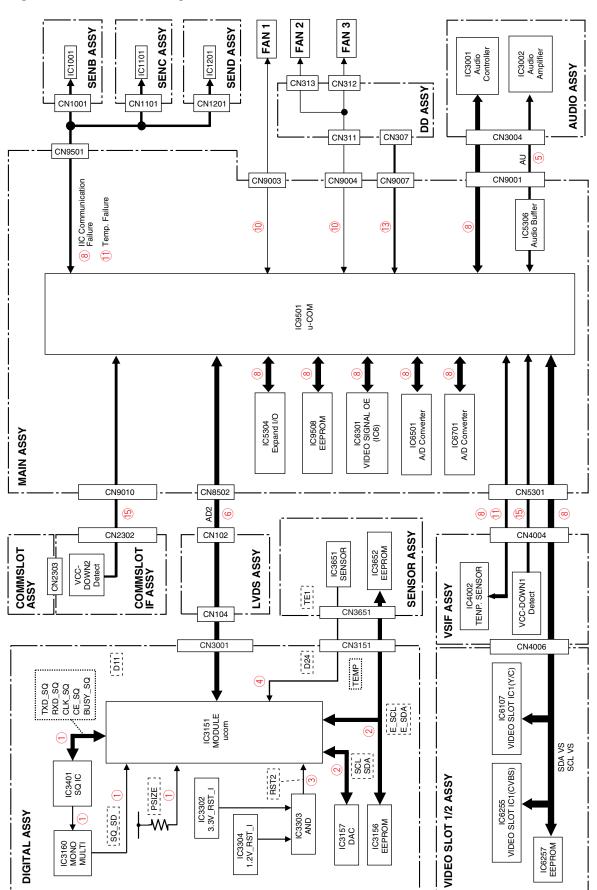
С

D

Ε

F

# ■ Block Diagram of the Shutdown Signal



PDP-507CMX

6

119

Α

В

С

D

Ε

2

3

4

As it is very difficult to identify the defective part, replacement of the Assy or the power unit is required. Check the pull-up resistor of the IIC control line and the power to the corresponding IC. If RST2 does not become high after the unit is turned on, a shutdown will be generated in several seconds. Communication with the EEPROM that backs up the latest settings of the main microcomputer failed. Possible causes are disconnection of the IIC line (SCL Pin 6, SDA Pin 5), short-circuit, or defective IC. Communication with the audio control IC failed. Possible causes are disconnection of the IIC line (SCL Pin 18, SDA Pin 17), short-circuit, or defective IC. If the signal detection by the module microcomputer is properly performed, the unit operates on an external sync. Check the pull-up resistor of the IIC control line and the power to the corresponding IC Check the pull-up resistor of the IIC control line and the power to the corresponding IC Note: Check the connections of the speakers. A wrong usage of speakers by customers, such as extended time of short-circuiting of the speaker outputs or use of speakers with impedance of 6 ohms or less, may have caused a failure in the AMP IC. Communication with the extension I/O failed. Possible causes are disconnection of the IIC line (SCL Pin 22, SDA Pin 23), short-circuit, or defective IC. Communication with the video decoder that is mounted in the video slot failed. Possible causes are disconnection of the IIC line (SCL Pin 37, SDA Pin 36), short-circuit, or defective IC. TEMP1 that is read by the module microcomputer is 75℃ or higher, a shutdown will be generated The temperature of the unit or the ambient temperature may be abnomally high. The fan is in failure. First check if a foreign object is caught in the fan. Then check if the FAN cable is properly connected. Communication with the EEPROM that is mounted in the video slot failed. Possible causes are disconnection of the IIC line (SCL Pin 6, SDA Pin 5), short-circuit, or defective IC. Failure in communication with the module microcomputer or the defective surrounding circuitry is suspected. Check if the communication line (TXD0/RXD0) is short-circuited or open. Communication with the A/D converter failed. Possible causes are disconnection of the IIC line (SCL Pin 119, SDA Pin 118), short-circuit, or defective IC. Communication with the RGB signal switch failed. Possible causes are disconnection of the IIC line (SCL Pin 166, SDA Pin 165), short-circuit, or defective IC. The written SQ\_PROG is incoherent with data on the DIGITAL Assy If BUSY\_SQ remains high, a shutdown is generated The temperature sensors do not operate properly. three temperature sensors are properly connected. Failure in writing in the module microcomputer Check if cables are firmly connected. Check if V + 12 V is started. AMP IC in failure POWER SUPPLY Unit (AXY1135) Possible Defective FAN or MAIN Assy or DD Assy CN3001, IC3401 IC3151, IC3156 IC3151, IC3652 IC3301, IC3401 IC3151, IC340<sup>-</sup> IC3151, IC3157 AWW1116 (IC; ı AXY1137 IC3401 C3002 103151 1C9508 Failure in communication with the VIDEO SLOT IC1 (Y/C) 1C6107 IC6501 IC6701 IC6257 IC5304 103151 IC6255 IC6301 IC3001 Failure in communication with the VIDEO SLOT IC1 (CVBS) Failure in communication with the VIDEO SLOT EEPROM Failure in communication with the AUDIO CONTROL IC Failure in communication with the A/D Main (A system) Failure in communication with the A/D Sub (B system) Check the model number of the DIGITAL Assy and the destination of the SEQ IIC communication line of IC3157 Is the output voltage of the DC-DC converter low? CLK\_SQ/TXD\_SQ, etc. Check if the video sync signal is input to IC3401. Failure in communication with the extention I/O Failure in communication with the EEPROM Failure in communication with the IC6 12 V circuit is in failure 13.5 V and 6.5 V circuits are in failure Checkpoint IIC communication line of IC3156 IIC communication line of IC3652 The 12 V power is not output. MODULE UCOM BLOCK MODULE UCOM BLOCK Femperature sensor AD2 connector BUSY\_SQ AMP IC FAN Log Indication in Factory Mode SQNO BUSY VER-HS SUB BACKUP TEMP1 1 Ī 1 1 1 MAIN TMP\_NG SQ-IC MD-IIC RST2 ncoherent version (hardware, software) DIGITAL Assy EEPROM
PANEL SENSOR EEPROM **Detailed Type** Communication error Drive stop Busy emperature sensor VIDEO SLOT COMM SLOT VIDEO SLOT VIDEO SLOT VIDEO SLOT AUDIO MAIN MAIN MAIN MAIN MAIN Failure in IIC communication with the module microcomputer Failure in communication with the module microcomputer Failure in IIC communication with the main microcomputer Abnormality in the power supply voltage Abnormality in temperature VCC-DOWN1 detection VCC-DOWN2 detection High temperature of the panel Abnormality in the fan Short-circuiting of the speakers Abnormality in RST2 power decrease Abnormality in the Sequence Processor Major Type Not used Not used requency of LED Flashing 12 15 4 10 Ξ 5 4 N က 2 9 ω

120

F

PDP-507CMX

2

3

#### 1. Function of lowering the luminance level (Information on symptoms that are not failure)

### ■ High-temperature protection function

If the temperature reaches 70 °C, the limit of the maximum count of plasma discharge is gradually lowered, in order to prevent overheating.

- Temperature control is performed based on the temperature value of TEMP1.
- The maximum count of plasma discharge is decreased by 8 every 5 seconds.
- The lowest limit of the maximum count of plasma discharge is about 700.
- The maximum count of plasma discharge will increase gradually once the temperature of the unit is lowered to a specified temperature.

#### ■ Panel protection function 1 (for preventing burn-in during Still Picture mode)

If Still Picture mode is continued for 3 minutes or more, the limit of the maximum count of plasma discharge is gradually lowered, in order to reduce burn-in on the display.

- Whether the image displayed is a still picture or not is detected, and the Panel Protection Function will be activated (Even if the mouse pointer is moved on a still picture, that picture is judged as a still picture.)
- The maximum count of plasma discharge is decreased by 8 every 5 seconds.
- The lowest limit of the maximum count of plasma discharge is about 700. (It takes about 15 minutes to reach the lowest limit, although it depends on what is displayed on the screen.)
- If the image is changed to an animated picture, the maximum count of plasma discharge is gradually increased.

Note: How to lower the luminance level is the same as that for the high-temperature protection function 1.

#### ■ Panel protection function 2 (for protecting the SCAN IC)

If a particular load is added on the SCAN IC locally, as shown in the figure on the right, the limit of the maximum count of plasma discharge is gradually lowered.

**Note:** How to lower the luminance level is the same as that for the high-temperature protection function 1.

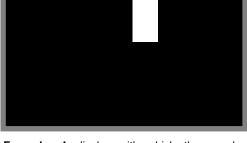


**Example:** A display with which the SCAN IC protection function is to be activated

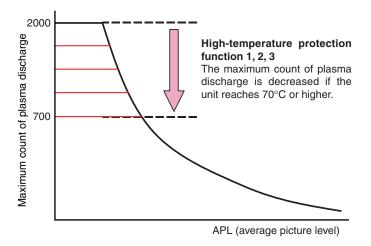
### ■ Panel Protection Function 3 (for protecting the panel from cracking)

The heating value for a bright window part on the screen, as shown in the figure on the right, is high. So, if such a pattern is recognized, the limit of the maximum count of plasma discharge is gradually lowered.

**Note:** How to lower the luminance level is the same as that for the high-temperature protection function.



**Example:** A display with which the panelcracking protection function is to be activated



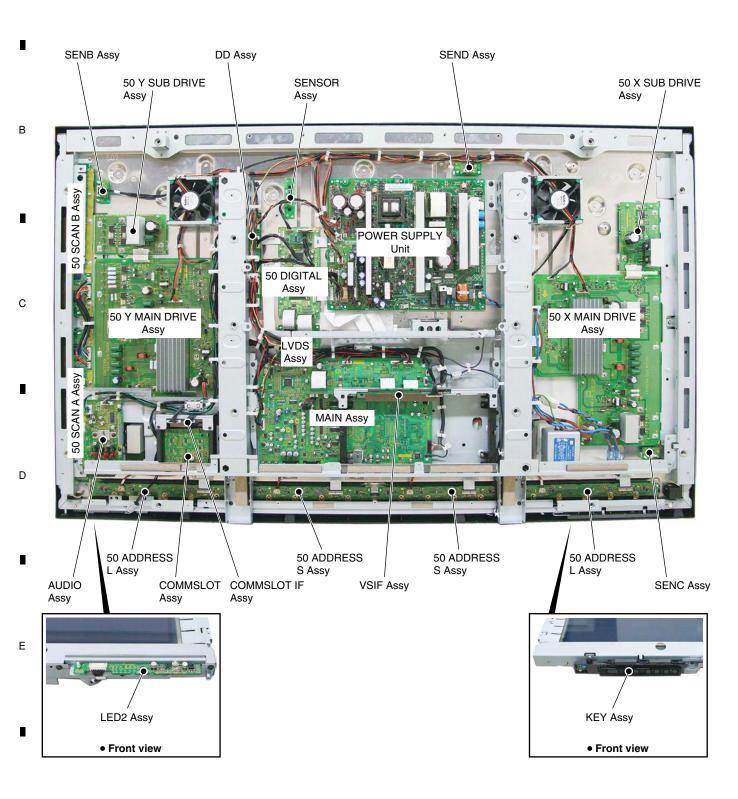
5

121

С

D

3



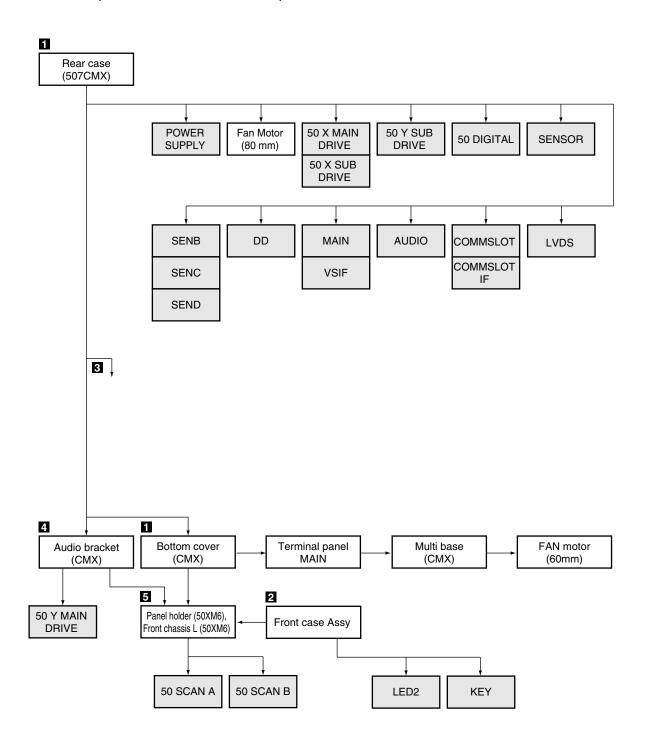
• Rear view

122

**Note:** Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

# Chart of removal order for the main parts and boards

It is efficient to proceed with removal of the main parts and boards in the order shown in the chart below:



123

В

С

D

# Disassembly

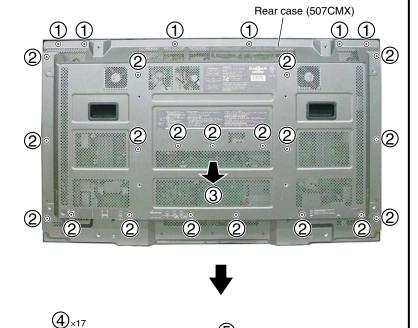
# 1 Rear Case (507CMX) and Bottom Cover (CMX)

- Rear case (507CMX)
- 1 Remove the six screws. (TBZ40P080FTB) (2) Remove the 19 screws. (AMZ30P060FTB)
- (3) Remove the rear case (507CMX).

В

С

- Bottom Cover (CMX)
- (4) Remove the 17 screws. (AMZ30P060FTB)
- (5) Remove the bottom cover (CMX).

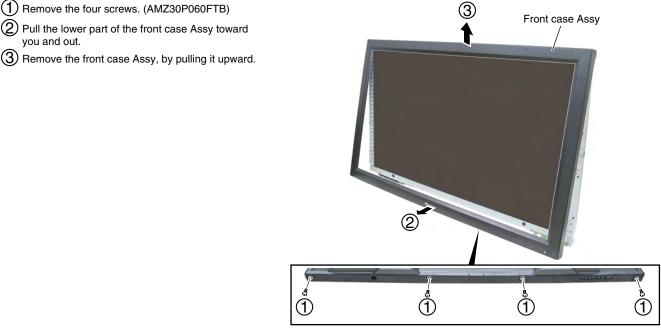


Bottom cover (CMX)



# **2** Front Case Assy

- (1) Remove the four screws. (AMZ30P060FTB)

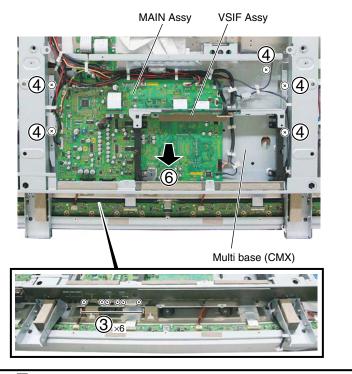




124

Е

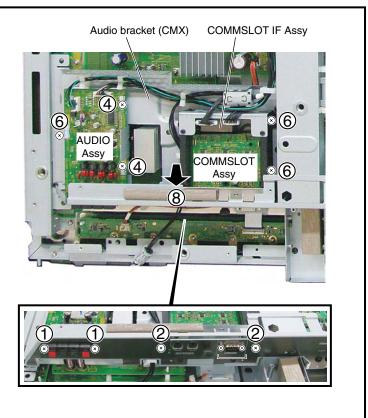
- (1) Remove the rear case and the bottom cover.
- (2) Remove the two screws and the terminal panel MAIN.
- Remove the six hex. head screws.
- (4) Remove the five screws.
- (5) Disconnect cables, connectors, as required.
- (6) Remove the multi base (CMX) with PC boards.



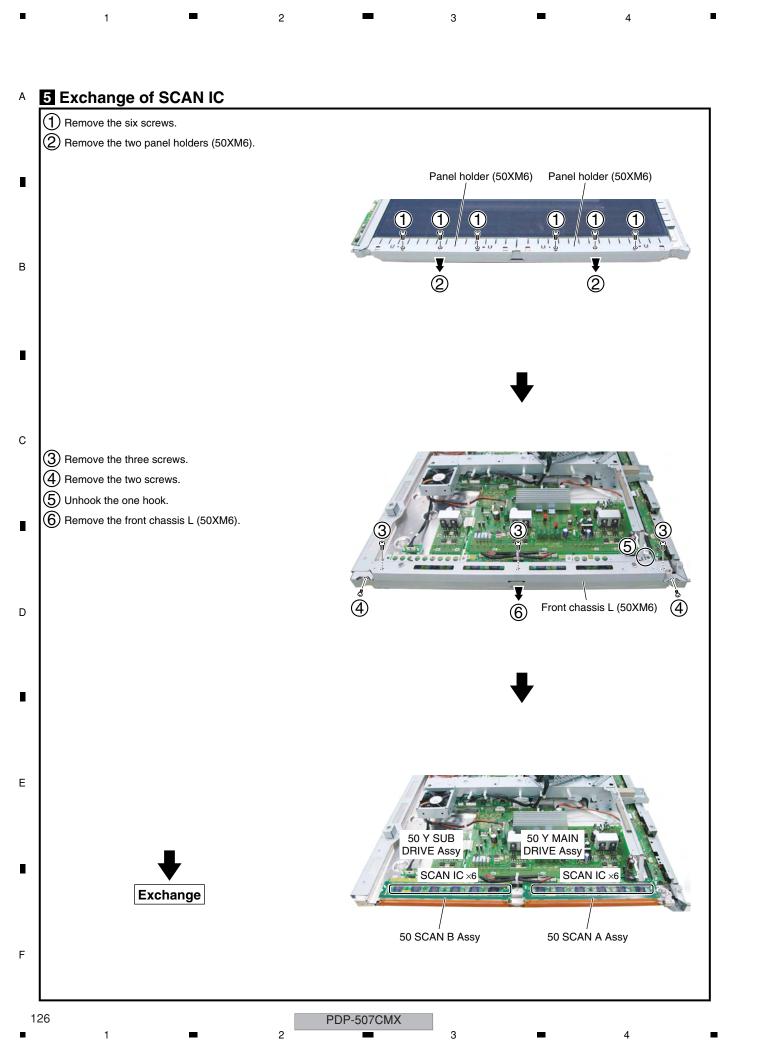


# 4 Audio Bracket (CMX)

- (1) Remove the two screws.
- Remove the two screws and the treminal panel. Then remove the COMM unit.
- **3...**
- (4) Remove the five screws.
- (5) Remove the AUDIO Assy.
- 6 Remove the three screws.
- (7) Disconnect cables, connectors, as required.
- f 8 Remove the audio bracket (CMX) with PC boards.









# **PARTS CHANGE OF NOTES**

- 1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.
- 2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.
- 3. Use a stable AC power supply.

# 7.1 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

# ■ When any of the following assemblies is replaced

POWER SUPPLY Unit	<b>→</b>	Refer to "7.3 HOW TO CLEAR HISTORY DATA" and "7.6 PROCEDURE WHEN REPLACING THE POWER SUPPLY UNIT".
DIGITAL Assy	<b>→</b>	Writing of backup data is require. Refer to the "7.2 BACKUP OF THE ADJUSTMENT DATA"
50X MAIN DRIVE Assy	<b>)</b>	No adjustment required
50X SUB DRIVE Assy	<b>)</b>	No adjustment required
50Y MAIN DRIVE Assy	<b>)</b>	No adjustment required
50Y SUB DRIVE Assy	<b>)</b>	No adjustment required
Service Panel Assy	<b>→</b>	Refer to the "7.3 HOW TO CLEAR HISTORY DATA" and "7.4 EXCHANGE THE SERVICE PANEL"
MAIN Assy	<b>→</b>	Refer to the "7.2 BACKUP OF THE ADJUSTMENT DATA" and "8. SERVICE FACTORY MODE"
SENSOR Assy	<b>→</b>	Writing of backup data is reguire. Refer to the "7.2 BACKUP OF THE ADJUSTMENT DATA"
Other assemblies	<b> </b>	No adjustment required

127

Ε

В

PDP-507CMX

5

6

# ■ When any part in the following assemblies is replaced

#### Notes on replacing parts

For the parts described in the list below, replacement is required for the whole Assy, not only the defective part.

A If any part listed below is identified as defective and needs replacement, replace the whole Assy, and make necessary adjustments after replacement.

**Reason:** The whole Assy must be replaced, because adjustments and data rewriting for the Assy at the level of production line are required.

A N -	Assy Name	Parts that Require Whole-Assy Replacement			
Assy No.		Ref No.	Function Name	Part No.	
	50 DIGITAL Assy	IC3151	Module microcomputer	AGC1011	
A14044044		IC3401	Sequence IC	PEG239A	
AWW1241		IC3301	Flash memory	AGC1009	
		IC3156	EEPROM	BR24L04FJ-W	
AWW1140	SENSOR Assy	IC3652	EEPROM	BR24L02FJ-W	
AWW1199	MAIN Assy	IC9508	EEPROM	24LC128 (I) SN	

• (	POWER SUPPLY Unit	$\rightarrow$	The assembly must be replaced as a unit, and no part replacement is allowed.
	DIGITAL Assy	$\rightarrow$	No adjustment is required after replacement of parts other than those mentioned above.
;	50X MAIN DRIVE Assy	<b>→</b>	No adjustment is required after replacement of parts other than those shown in "7.5 ADJUSTMENTS WHEN THE DRIVE ASSYS ARE REPLACED".
	50X SUB DRIVE Assy	$\Rightarrow$	No adjustment required
<b>!</b>	50Y MAIN DRIVE Assy	<b>→</b>	No adjustment is required after replacement of parts other than those shown in "7.5 ADJUSTMENTS WHEN THE DRIVE ASSYS ARE REPLACED".
	50Y SUB DRIVE Assy	<b>→</b>	No adjustment required
)	MAIN Assy	<b>→</b>	The assembly must be replaced as a unit, and no part replacement is allowed except the part of note 1.
	SUB Assy	<b>→</b>	The assembly must be replaced as a unit, and no part replacement is allowed except the part of note 2.
	SENSOR Assy	<b>→</b>	No adjustment is required after replacement of parts other than those mentioned above.
	Other assemblies	$\rightarrow$	The assembly must be replaced as a unit, and no part replacement is allowed.
	Note 1: MAIN Assy	IC5007	IC5008 IC5301 IC5304 IC5305 IC5307

IC500, IC5002, IC5004, IC5005, IC5007, IC5008, IC5301, IC5304, IC5305, IC5307, IC5603–IC5606, IC5902, IC5903, IC5904, IC9504, IC6301, IC6302, IC6304, IC8002, IC8003, IC8501, X8001, X8002, X9501

Note 2: SUB Assy

IC3001,IC3002,IC3004, IC2301,U2401,Q2301,Q2302

•

128

# 7.2 BACKUP OF THE ADJUSTMENT DATA 7.2.1 BACKUP WHEN THE DIGITAL ASSY REPLACES

#### Outline

Adjustment data are stored in the EEPROM (IC3156) on the DIGITAL Assy in the production process. Those adjustment data are also automatically stored in the EEPROM (for backup: IC3652) on the SENSOR Assy.

If the DIGITAL Assy is replaced, those adjustment data for backup can be copied from the EEPROM on the SENSOR Assy to a new DIGITAL Assy.

# Backed up data

- · Drive voltage adjustment value
- · Hour-meter count
- Pulse-meter count
- · Panel white balance adjustment value

- Serial No.
- · Drive waveform adjustment value
- P-ON counter value
- PD/SD histories

# ■ How to copy backup data

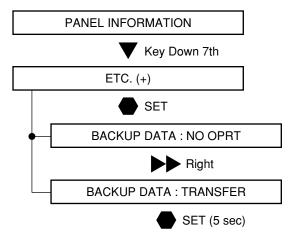
## 1. When the DIGITAL Assy is replaced with one for service (usual service)

Adjustment data can be restored by copying the data backed up in the SENSOR Assy to the EEPROM on a new DIGITAL Assy.

The EEPROM on the new DIGITAL Assy has no adjustment data, and the EEPROM for backup in the SENSOR Assy has adjustment data. After replacing the DIGITAL Assy, enter PANEL FACT. mode, display the PANEL INFORMATION page, then check if "NO DATA!" is set for "DIG. EEP" and "ADJUSTED" is set for "BACKUP". Then, proceed in the following steps:

#### (1) Copying, using the Factory menu

- ① Plug in the AC cord, press the Power switch on the unit to set it to ON, then enter Standby mode.
- ② Turn on the power, using the remote control unit, then enter Panel Factory mode. Copy the backup data, as shown in the figure below.



- ③ Turn the power off.
- If copying of the backup data fails in the above procedure, the red LED lights, and the blue LED flashes, as a warning that no backup data were copied.
- If both the DIGITAL and SENSOR Assys are to be replaced, first replace the SENSOR Assy, turn the unit on and back off again, then replace the DIGITAL Assy.

#### (2) Copying, using the RS-232C commands

- ① Turn on the unit, using the remote control unit or by issuing the PON command. Then issue the FAY command.
- ② Issue the BCP command to transfer the data stored in the EEPROM for backup.
- 3 Turn the power off.

129

В

С

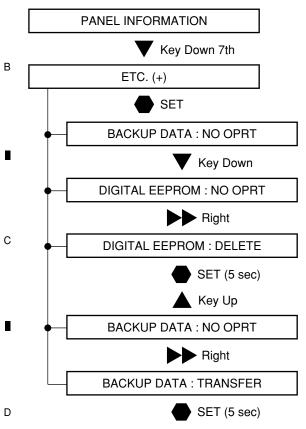
D

# 2. When a secondhand DIGITAL Assy that had been mounted in another product is to be reused

As adjustment data for another product are already stored in the secondhand DIGITAL Assy, first delete those data then copy the backup data stored in the EEPROM on the SENSOR Assy.

#### (1) Copying, using the Factory menu

- ① Plug in the AC cord, press the Power switch on the unit to set it to ON, then enter Standby mode.
- ② Turn on the power, using the remote control unit, then enter Panel Factory mode.
- Copy the backup data, as shown in the figure below.



3 Turn the power off.

#### Note:

If the secondhand DIGITAL Assy is mounted in the product then the unit is turned on then back off again, the data in the EEPROM on the DIGITAL Assy are copied over the EEPROM in the SENSOR Assy. Thus the backup data can never be restored. During the first power-on after the DIGITAL Assy is replaced, be sure to enter Factory mode to copy the backup data. Or, before removing the secondhand DIGITAL Assy from the original product, delete the adjustment data on it, using the Factory mode (DIGITAL EEPROM: DELETE), mount it to the product to be repaired, then copy the data from the backup EEPROM.

#### (2) Copying, using the RS-232C commands

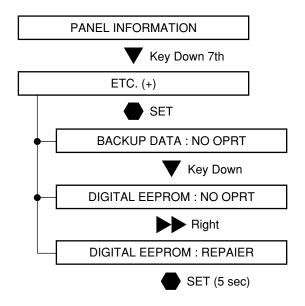
- ① Turn on the unit, using the remote control unit or by issuing the PON command. Then issue the FAY command.
- ② Issue the UAJ command to delete data stored in the EEPROM on the DIGITAL Assy.
- ③ Issue the BCP command to transfer the data stored in the EEPROM for backup.
- 4 Turn the power off.

130

**Note:** In this section, it is assumed that settings for various items have been completed, using Factory menu or RS-232C commands.

#### (1) Method using the Factory menu

- ① Set various setting/adjustment values.
- ② Proceed in the following steps.



3 Turn the power off.

#### Note:

When a DIGITAL Assy with an EEPROM in which adjustment data are stored is mounted, this step is not required after manual adjustment. ("DIGITAL EEPROM: REPAIR" is not indicated.)

(2) Method using the RS-232C commands

Issue the FAJ command.

131

В

С

D

Ε

PDP-507CMX

,

## 7.2.2 BACKUP WHEN THE MAIN ASSY REPLACED

# ■ Data to be backed up

- Hour-meter of product
- Serial No of product
- User adjustment value

(It became an initial value when entering the integrator mode.)

• Integrator adjustment value

# ■ How to Copy Backup Data

## 1. System Requirements for the PC and PC settings

#### **Operation environment**

PC with Windows 95/98/Me or Windows NT/2000/XP installed, and with one or more serial ports.

3

Note: According to specifications of hardware, the baud rate setting may be limited.

#### File structure

В

С

MCUT22SPio\_E.exe Executable file for the utility (English version)

MCU\_DATA.INI MCU data file MCU\_01.INI MCU information file

#### Installation of software for rewriting

Create a folder and copy the following files into that folder:

- MCUT22SPio\_E.exe
- MCU\_DATA.INI
- MCU\_01.INI

#### 2. Connect the PC to the PDP.

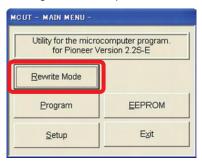
Use an RS-232C straight cable.

3. Set the Main Power switch of the PDP to OFF.

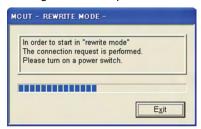
132

# ■ Read Out the Adjustment Data

(1) Click on MCUT22SPio\_E.exe to start the program. The following screen will open:



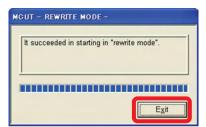
(2) Click on [Rewrite Mode]. The following screen will open:



Note: If the following error message is displayed, click on [OK]. Then click on Setup for COM port settings. See the reference "SETUP screen (default settings)" described at the end of the procedures.

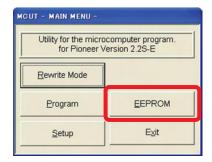


- (3) Set the Main Power switch of the PDP to ON.
- (4) After the message "It succeeded in starting in "rewrite mode". is displayed, click on [Exit].

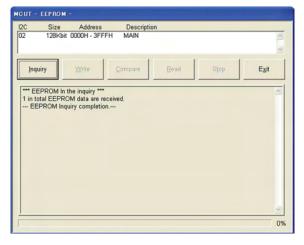


(5) The MAIN MENU returns.

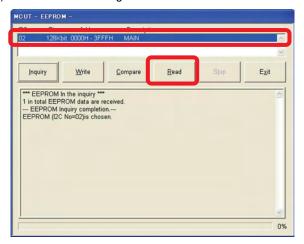
5



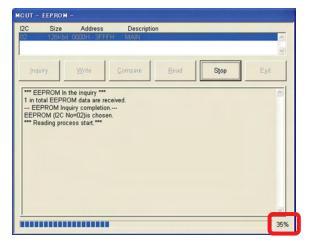
(6) Click on [EEPROM]. The following screen will open:



(7) Click on the following address indication to select it:



(8) Click on [Read]. The Save As window will open. Designate a filename (extension: .eep) then click on Save.



When reading is completed, the figure becomes 100%. The Reading Completed window is displayed. To display the content of the data that have been read out, click on Yes. If displaying is not required, click on No.

133

8

В

С

D

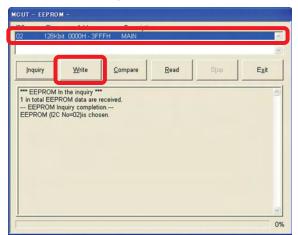
Ε

F

# ■ Write in the Backup Data

В

- Write in the backed up setting data of the main unit. Proceed from (1) to (6) of Step 4 to enter Rewrite Mode and open the EEPROM window.
  - (1) Click on the following address indication to select it:

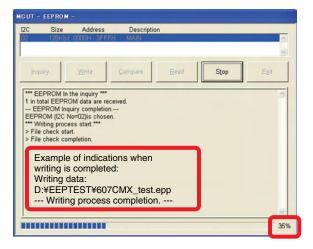


(2) Click on [Write]. The Open File window will open. Select the backed up data (extension: .eep), then click on [Open].

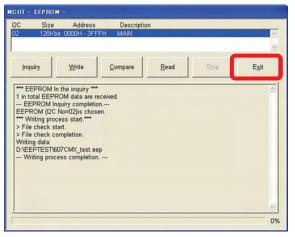
Confirmation of start of writing to the EEPROM



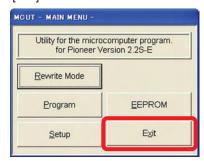
(3) The message "Writing of EEPROM is started. Is it good?" is displayed. Click on Yes. Writing starts, as shown below:



- (4) When the figure becomes 100% and the message "Writing is completed" is displayed, writing is completed. Check if the filename for the written data is correct.
- (5) Click on [Exit].

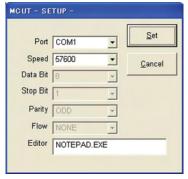


(6) Click on [Exit].



- (7) Set the Main Power switch of the PDP to OFF (LED goes dark) then back to ON.
- (8) The writing procedures are finished.

**Reference:** SETUP screen (default settings) Once you click on [Setup] on the MAIN MENU, the following screen is displayed:



1-2-1) Port

Select the communication port (COM1-COM4). The initial setting is COM1. Select the COM port to which the PC is connected.

1-2-2) Speed (Baud rate)

Always set it to 57600 (initial setting). Communication is not possible with any baud rate other than 57600.

134

Ε

PDP-507CMX

2

3

#### About clearing log data after an Assy replacement

5

In the backup EEPROM of the DIGITAL Assy, besides adjustment values of the main unit, data on power-on time and log data on defective parts, etc. are updated and stored. Among those data, some need to be cleared when the DIGITAL Assy is replaced during servicing.

			<b>DO 0000</b>		
Item	Content	Panel replacement	Power unit replacement	Other than those at left	RS-232C Command
Hour meter	Accumulated display time	Clearing required	Clearing not required	Clearing not required	СНМ
Shutdown logs	Location where an SD was generated and the hour-meter value at that time	Clearing required	Clearing not required	Clearing not required	CSD
Power-down logs	Location where a PD was generated and the hour-meter value at that time	Clearing required	Clearing not required	Clearing not required	CPD
Pulse meter	Accumulated number of pulse emissions (Block 5)	Clearing required	Clearing not required	Clearing not required	СРМ
Power-on count	Accumulated RELAY_ON counts	Clearing not required	Clearing required	Clearing not required	CPC
MAX TEMP	In the past the greatest temperature	Clearing required	Clearing required	Clearing required	CMT

- (1) To clear the data using RS-232C commands, first send the FAY command to enter Factory mode, then send a command shown in the table above.
- (2) To clear the data using the Factory menu, first display the Factory menu by pressing the keys in the following step: Press DISPLAY key → Don't press any keys for 3 seconds → Press the keys in the following order: LEFT, UP, LEFT, RIGHT, then POWER.

PANEL INFORMATION		
▼ (down)		
▼ (down)		
ETC (+)	]	
SET	_	
BACKUP DATA	]	
▼ (down)	_	
DIGITAL EEPROM		
▼ (down)	_	
o clear PD logs		
PD INFO: NO OPRT	► (right)	PD INFO: CLEAR
▼ (down)	_	SET (Hold the keys pressed for 5 seconds.)
o clear SD logs		
SD INFO: NO OPRT	► (right)	SD INFO: CLEAR
▼ (down)		SET (Hold the keys pressed for 5 seconds.)
o clear hour meter data		
HR-MTR INFO: NO OPRT	► (right)	HR-MTR INFO: CLEAR
▼ (down)	_	SET (Hold the keys pressed for 5 seconds.)
o clear pulse meter data		
PM/B1-B5 INFO: NO OPRT	► (right)	PM/B1-B5 INFO: CLEAR
▼ (down)		SET (Hold the keys pressed for 5 seconds.)
o clear power-on-count data		
P COUNT INFO: NO OPRT	► (right)	P COUNT INFO: CLEAR
▼ (down)	_	SET (Hold the keys pressed for 5 seconds.)
o clear MAX TEMP		
MAX TEMP : NO OPRT	► (right)	MAX TEMP : CLEAR
	_	SET (Hold the keys pressed for 5 seconds.)

135

С

D

# 7.4 EXCHANGE THE SERVICE PANEL 7.4.1 ATTENTION WHEN SERVICE PANEL ASSY IS REPLACED

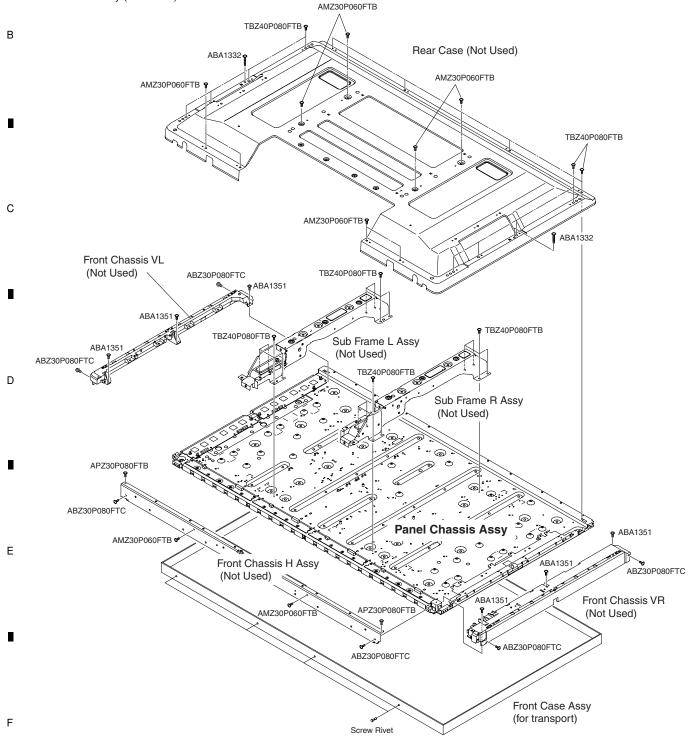
Α

The following parts of service panel assy are not used.

- Front Chassis VL (AMA1014)
- Front Chassis VR (AMA1022)
- Sub Frame L Assy (ANA1945)
- Sub Frame R Assy (ANA1946)
- Front Chassis H Assy (ANA2058)
- Rear Case (ANE1656)
- Front Case Assy (AMB2977)

Parts to fix the wire etc. are packed as an accessory. Refer to "2.EXPLODED VIEWS AND PARTS LIST".

Please remove the Re-use PCB spacer (AEC2087) from exchanged panel chassis assy, and reuse it to assemble the PCB ASSY



136

PDP-507CMX

3

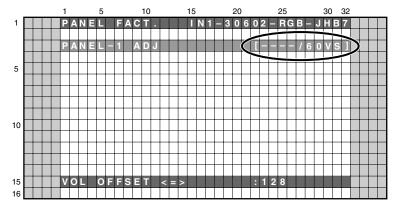
# 7.4.2 ADJUSTMENTS WHEN THE SERVICE PANEL ASSY IS REPLACED

# ■ Flowchart for panel replacement

After replacing the panel with one for service, readjustment of the Vofs voltage margin is required.

### [Preparations]

- Basically, the Panel Factory menu is used for the voltage margin adjustment.
- The 60-Hz video sequence is used as the drive sequence.
- While adjusting the voltage margin using the Panel Factory menu, the current drive sequence is indicated on the screen, as shown below. Make sure that "60VS" is always indicated during adjustment.



Example of the OSD while the Panel Factory menu is displayed

#### [Supplement]

- When the raster mask for margin adjustment is displayed during Panel Factory mode, the Panel White Balance is set to default, and the Panel Gamma is set to Straight in the "PANEL-1 ADJ" layer.

  On the third line, the OSD reads "- - /\*\*\*\*" (\*\*\*\* stands for the type of the drive sequence set).
- If you perform adjustment using RS-232C commands, use the commands shown below.
   These commands are different from those used during Factory Menu mode.

PAV S00 : Used to set the Panel Drive mode to Factory. VFQ S03 : Used to set the Drive Sequence to Video 60 Hz.

WBI S01 : Used to temporarily set the adjustment value of the Panel WB to default. (To return the value to its original

value, use WBI S00.)

PGM S00: Used to set the gamma setting to Factory.

**Note:** If the power is shut off in the process of the adjustment procedures, send the above commands again.

137

8

В

С

D

### OUTLINE

#### Mode switching

Switch modes to start the voltage adjustment, as follows:

Enter Factory mode.

Display RST MASK 01 (white).

FAY MKS S51

VSU137

VRP\*\*\*

VOF\*\*\*

#### Voltage setting-

Set Vsus and Vyprst, and tentatively set Vofs:

VOL SUS

: Set to 137 (205[V])

VOL RST P : Set to the voltage indicated on the panel label.

VOL OFFSET: Tentatively set to the voltage

indicated on the panel label.

# Ranges of the adjustable voltages

(Ranges of the adjustable voltage when the upper and lower limits of each voltage are to be checked in this flowchart)

Vsus = 205 [137] [V]

Vofs = 15 [005] to 60 [246] [V]

Vyprst = 250 [013] to 300 [128] [V]

Vxnrst = 180 [V]

(stricter value).

V oo

Vh = 130 [V]Vadr = 60[V]

#### Ranges of the voltage settings

(Ranges of voltage settings for this unit)

Vsus = 205 [137] [V]

Vofs = 28 [075] to 48 [182] [V] Vyprst = 260 [036] to 300 [128]

Upper limit of the voltage

Lower limit of the voltage

[V]

Vxnrst = 170 [V]

Vh = 130 [V]

Vadr = 60 [V]

When calculating the voltage, round off the fractional part.

Down

**T**Up

(For circuit protection, it is desirable to set the voltage to a lower value.)

For margin measuring, be sure to read the value within the hysteresis

Up

discharge

Down 4

With erroneous discharge

With erroneous discharge

# - Aging

В

С

Perform aging with the fully white screen for 30 minutes

To prevent an error caused by the temperature characteristics and to let the unit show its full properties after letting it sit, perform aging for 30 minutes to raise the panel temperature to a certain extent. This ensures the accuracy of inspection and adjustment.



## Actual Vofs adjustment (2 to 4)

Measuring the upper limit of Vofs

Signals to be measured: red 760, red 1023+, green 1023, and blue 1023

Vofs setting

In a case where the upper limit of Vofs is less than 49: Vofs set voltage = Upper limit value of Vofs - 9 [V]

In a case where the upper limit of Vofs is 49 or more: Vofs set voltage = 40 [V]



#### The Definition of Abnormal Cells

Read the voltage

within this range.

Abnormal bright cells: Within five cells on screen.

(fewer than 2 cells within a radius of 1 cm)

Without erroneous

Abnormal dark cells: Under fifteen cells on screen.

(fewer than 2 cells within a radius of 1 cm)

Count abnormal cells at a distance of 1 m from panel.

If abnormal cells won't occur longer than one second, do not count the

abnormal cells.

Do not count still dark cells and bright cells.

#### CA check with black

With the black mask displayed, check if there are stationary or horizontally moving lit cells.



Check that each voltage value is correctly set.

N **Confirmation of settings** 

#### Command transfer

After the voltage adjustment is finished, make the following settings:

Mask: OFF, Factory: OUT

#### CA check-

Check that the picture is properly displayed.

Use DVD, LD, and broadcast signals for checking.

#### Standard settings of the unit at shipment:

Vsus setting = 205 [137] [V]

Vsus margin = 17 [V] or more

Vofs setting = 28 [075] to 48 [182] [V]

Vofs margin = 19 [V] or more

Vyprst setting = 260 [036] to 300 [128] [V]

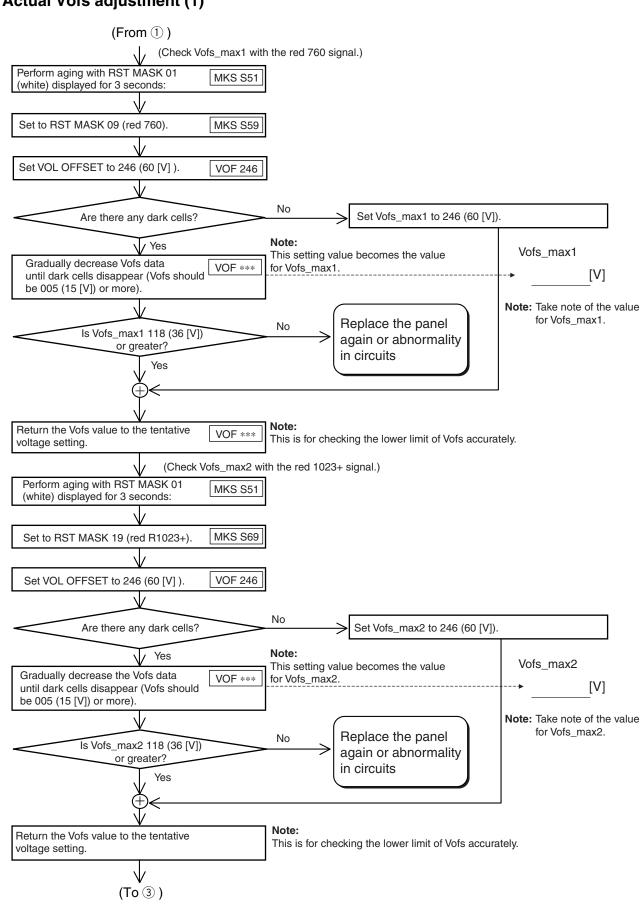
Note: The voltages in the flowcharts are given in absolute values (without  $\pm$ ).

138

8

В

D



140

Ε

В

PDP-507CMX

2

3

PDP-507CMX

Set the value as Vofs.

Value for Vofs = Vofs\_max - 48 (9 [V])

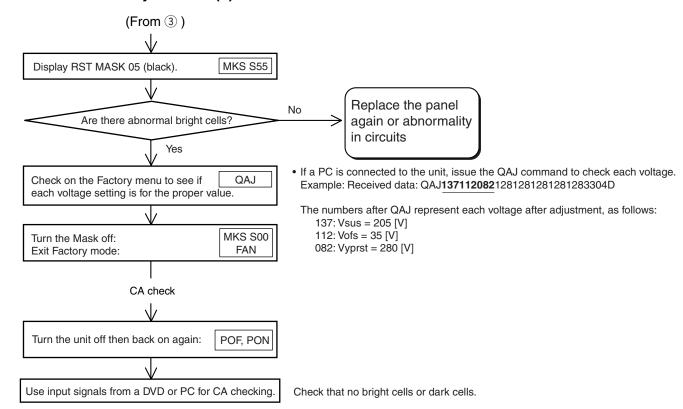
(To 4)

# **4** Actual Vofs adjustment (3)

Α

В

С



# ■ Conversion charts for electronic VRs (Vprst/Vofs)

5

Vprst [V]	Setting value [STEP]
250	013
251	015
252	018
253	020
254	022
255	024
256	027
257	029
258	031
259	034
260	036
261	038
262	040
263	043
264	045
265	047
266	050
267	052
268	054
269	056
270	059
271	
271	061
273	066
274	068
275	070
276	073
277	075
278	077
279	079
280	082
281	084
282	086
283	089
284	091
285	093
286	096
287	098
288	100
289	102
290	105
291	107
292	109
293	112
294	114
295	116
296	119
297	121
298	123
299	126
300	128

Vofs [V]	Setting value [STEP]
15	005
16	011
17	016
18	021
19	027
20	032
21	037
22	043
23	048
24	054
25	059
26	064
27	070
28	075
29	080
30	086
31	091
32	096
33	101
34	107
35	112
36	118
37	123
38	128
39	134
40	139
41	144
42	150
43	155
44	160
45	166
46	171
47	176
48	182
49	187
50	192
51	198
52	203
53	208
54	214
55	219
56	224
57	230
58	235
59	240
60	246

Α

R

\_

Ε

143

PDP-507CMX

7

,

# 7.5 ADJUSTMENTS WHEN THE DRIVE ASSYS ARE REPLACED

# ■ Waveform adjustments required when replacing the following parts of the 50X MAIN DRIVE and 50Y MAIN DRIVE Assys.

Assy Name	Ref No.	Part Name	Part Category	Remarks
50X MAIN DRIVE Assy	IC1205	PS9117P	Photo Coupler	
	IC1204	TND307TD	FET Driver	
50Y MAIN DRIVE Assy	IC2104	TND307TD	FET Driver	
	IC2209	PS9117P	Photo Coupler	
	IC2208	TND307TD	FET Driver	

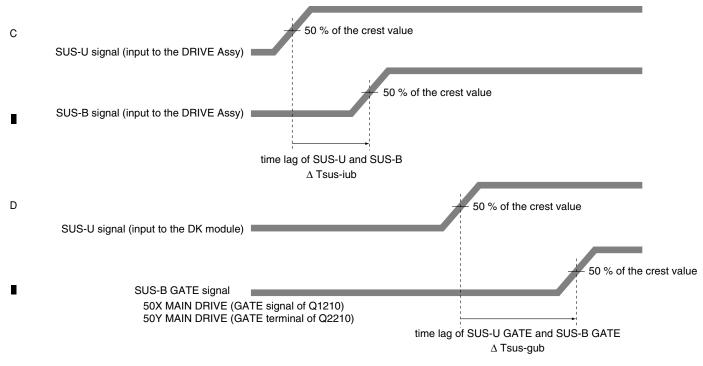
# В

# ■ TIME LAG ADJUSTMENT OF THE CONTROL SIGNAL (SUS-B)

- ① Measure the time lag for the SUS-U signal to the SUS-B signal.
- ② Check the time lag for the SUS-B GATE signal to the SUS-U GATE siganl.

Adjust the variable control so that the time lag of GATE becomes "time lag of input signal +  $\alpha \pm 5$  nsec."

Note: For details on measuring points of waveform, see the figure below.



#### E

#### time lag of SUS-U gate and SUS-B gate : $\Delta$ Tsus-gub

Adjust so that " $\Delta$  Tsus-gub =  $\Delta$  Tsus-iub +  $\alpha$  ± 5 nsec," using the variable controls shown in the table below:

Assy	VR	Value of $\alpha$
50X MAIN DRIVE ASSY	VR1001	70 nsec
50Y MAIN DRIVE ASSY	VR2001	50 nsec

F

144

6

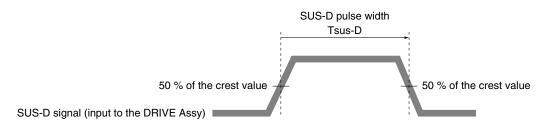
1) Measure the pulse width of the SUS-D signal.

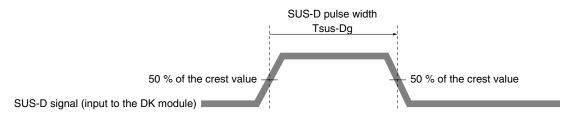
5

2 Check the pulse width of the SUS-D input signal for the DK module. Adjust the variable control so that the pulse width of the SUS-D input signal for the DK module becomes the "pulse width of the SUS-D signal ± 5 nsec."

7

Note: For details on measuring points of waveform, see the figure below.





SUS-D pulse width: Tsus-Dg

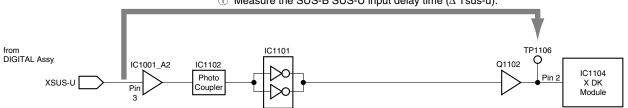
Adjust so that "Tsus-Dg = Tsus-D  $\pm$  5 nsec," using the variable control shown in the table below:

Assy	VR	
Y MAIN DRIVE	VR2002	

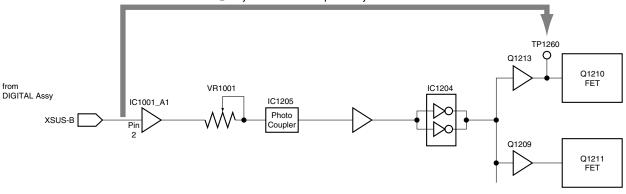
#### SUS-B ADJUSTMENT

#### X DRIVE Assy

① Measure the SUS-B SUS-U input delay time (Δ Tsus-u).



② Adjust the SUS-B input delay time so that it becomes " $\Delta$  Tsus-u +  $\alpha$   $\pm$  5 nsec."



145

В

С

D

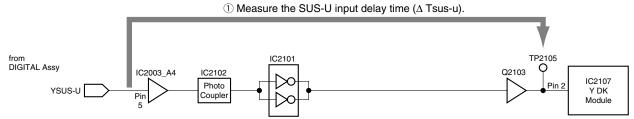
Ε

F

#### ■ SUS-B ADJUSTMENT

#### **50Y MAIN DRIVE Assy**

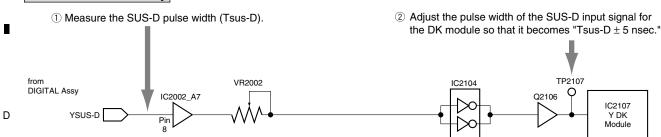
Α



② Adjust the SUS-B input delay time so that it becomes " $\Delta$  Tsus-u +  $\alpha \pm 5$  nsec." В TP2276 Q Q2221 Q2210 from DIGITAL Assy VR2001 IC2208 IC2003\_A4 IC2209 Photo YSUS-B Pin Coupler Q2215 Q2216 С

#### **SUS-D ADJUSTMENT**

### 50Y MAIN DRIVE Assy



146

Ε

## 7.6 PROCEDURE WHEN REPLACING THE POWER SUPPLY UNIT

### ■ Procedure of Changing Jumper Connector after replacing the Power Supply Unit

When replacing the Power Supply Unit, it is necessary to perform the following connector changes.

Otherwise the unit cannot work properly and the unit may be damaged.

Therefore perform these connector settings without fail when replacing the Power Supply Unit. (before power on the unit)



Location of the jumper connector

1. As for service parts, the Jumper connector is connected at connector P10.





2. Remove the jumper connector from connector P10 and connect it to connector P11.



3. Connect the cable connector from power SW to P10.





147

В

С

D

Ε

PDP-507CMX

# 8. SERVICE FACTORY MODE 8.1 SERVICE FACTORY MODE OUTLINE

A Three Service Factory modes are provided with this unit:

#### Service Menu Mode:

Mainly used for servicing.

Display of shutdown data for the MAIN Assy, serial number, or accumulated power-on time is performed.

When the MAIN Assy is replaced, input the serial number, using this menu.

#### Factory Menu Mode:

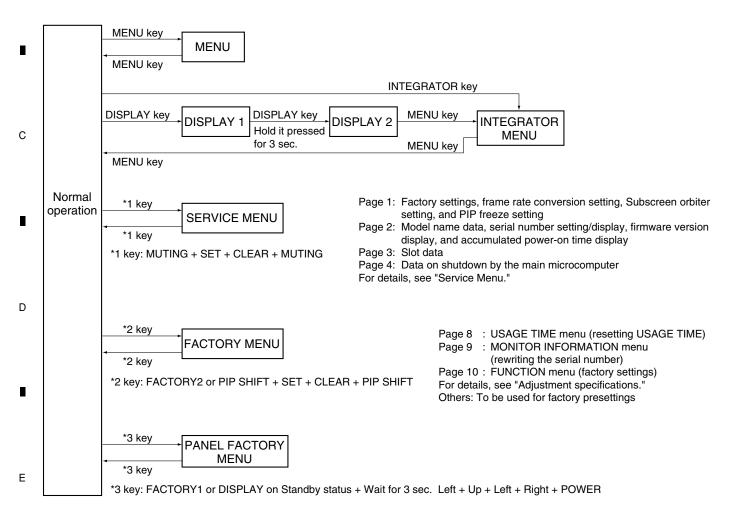
Mainly used for factory presetting.

The mode for line adjustment is displayed. Not for normal use.

When the MAIN Assy is replaced, factory shipment setting is required.

#### **Panel Factory Menu Mode:**

Mainly used for servicing. Display of power-down data inside the module and of accumulated power-on time, MASK ON/OFF, and setting of the Vofs voltage can be performed. When either the MAIN Assy, DIGITAL Assy, Service panel, or power supply unit is replaced, setting is required, using this menu. For details, see "7.2 BACKUP OF THE ADJUSTMENTS DATA", "7.4.2 ADJUSTMENTS WHEN THE SERVICE PANEL ASSY IS REPLACED".



148

### 8.2 SERVICE MENU MODE

#### ■ Service menu

A screen shifts to the Service Menu mode by the next key operation. Similarly, a screen ends the Service Menu mode by the next key operation.

MUTING + SET + CLEAR + MUTING

CLEAR: The key which moves to a next page group

ID SELECT: The key which moves to a previous page group

SERVICE MENU SHIP SCR-SPEED PSC-LIMIT OFF PIC-SIZE ON OFF LIMIT-VD LIMIT-PC ON U-SCAN OFF L-BOOST OFF V-FREQ OT 60HZ V-FREQ VD 60 H Z SYNCLEVEL1 TTL SYNCLEVEL2 TTL DVI-SEL HDCP SUB-ORB ON PIC FREEZE ON MENU/ENTER NEXT EXIT PREV 1/4

MONITOR INFORMATION MODEL NAME PDP-507CMX SERIAL/NUMBER :XXXXXXXXXX SOFTWARE VERSION :EM03 USAGE TIME :00000H T1 25 T2 25 T3 25 T4 ---MENU/ENTER NEXT EXIT PREV 2/4

#### **■** Contents

Menu	Functions	Item		Default	setting	
SHIP (shipment mode)	Selects the place of shipment	A/J/G/GS	Α	J	G	GS
PSC-LIMIT(PLE output limit)	Unsupport.	OFF / 1- 255	OFF	OFF	OFF	OFF
LIMIT-VD(PLE output limit for video)	Unsupport.	ON/OFF	OFF	OFF	OFF	OFF
LIMIT-PC(PLE output limit for PC)	Unsupport.	ON/OFF	ON	ON	ON	ON
U-SCAN(Under scan )	The change function in under-scan mode and over- scan mode.	ON/OFF	OFF	OFF	OFF	OFF
L-BOOST(Luminance boost)	Unsupport.	-	-	-	-	-
V-FREQ OT(Vertical freq. for other )	The AUTO/60Hz change function of Vertical freq. (for other)	AUTO/60HZ	60Hz	60Hz	60Hz	60Hz
	60Hz mode ->convert to 75Hz					
V-FREQ VD(Vertical freq. for video) The AUTO/60Hz change function of Vertical freq. (		AUTO/60HZ	60Hz	60Hz	60Hz	60Hz
	60Hz mode ->convert to 75Hz					
SYNCLEVEL 1	Unsupport.	-	-	-	-	-
SYNCLEVEL 2	Unsupport.	-	-	-	-	-
DVI-SEL	This setup is for the engineer	HDCP/ORG	HDCP	HDCP	HDCP	HDCP
SUB ORB(Sub picture orbiter)	Set sub picture orbiter to off.	ON/OFF	ON	ON	ON	ON
PIC FREEZE	Picture freeze setting.	ON/OFF	ON	ON	ON	ON
SCR-SPEED(Screen wiper speed)	Unsupport.	1-5	1	1	1	1
PIC-SIZE(Picture size)	Unsupport.	ON/OFF	ON	ON	ON	ON

#### MODEL NAME

A: PDP-507CMX J: PDP-507CMX-JP G: PDP-50MXE20 GS: PDP-50MXE20-S

5

F

В

С

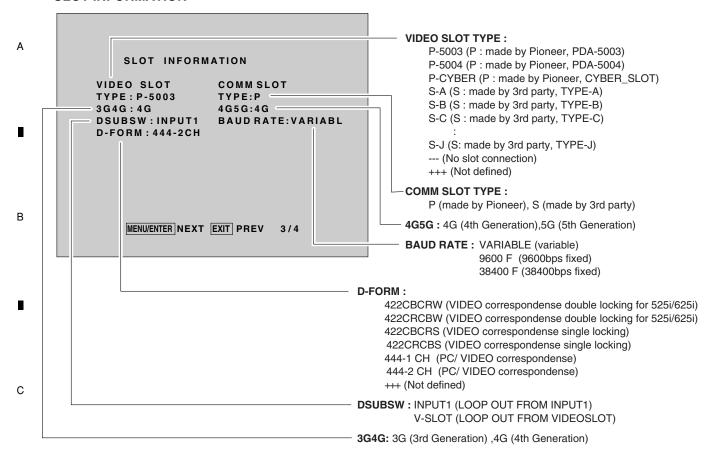
D

Ε

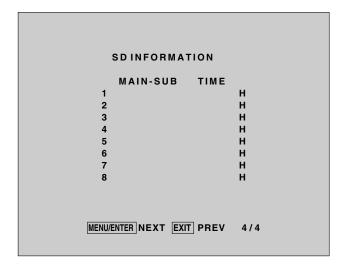
PDP-507CMX

149

#### **■ SLOT INFORMATION**



#### **■SD INFORMATION**



#### <MAIN, SUB Display Contents>

3

MAIN	SUB
0 : No SD (No abnormality)	0 : No sub category
5 : Speaker shortcircuitted	0 : No sub category
6 : Module u-com communication NG	0 : No sub category
8 : IIC communication NG	1 : EEPROM communication NG
	3 : VIDEO SLOT IC1 (CVBS) communication NG
	4 : VIDEO SLOT IC1 (Y/C) communication NG
	5 : A/D Main (A line) communication NG
	6 : A/D Main (B line) communication NG
	7 : IC6 communication NG
	F: VIDEO SLOT EEPROM communication NG
	J : AUDIO CONTROL IC communication NG
	K : Expand I/O2 communication NG
A : FAN stop	1 : FAN stop
B : Abnormal in temperature	1 : Thermal sensor 1 high temperature
(high temperature)	2 : Thermal sensor 2 high temperature
	3 : Thermal sensor 3 high temperature
	4 : Thermal sensor 4 high temperature
D : Abnormal in Power supply	0 : No sub category
8 : Other abnormality	1 : RLS cable pulled out
	2 : DC power down for COMM SLOT
	3 : DC power down for VIDEO SLOT
8 : NG except above item (main u-com NG)	0 : No sub category

F

D

Ε

150

В

С

D

Ε

#### ■ Adjusting conditions

Adjustments should be carried out in the procedures below. However, any adjustments other than the below are not required.

- When the "PDP module" is replaced, adjustments should conform to the adjusting items below.
   [HOW TO CLEAR HISTORY DATA] [BACKUP WHEN THE MAIN UNIT IS ADJUSTED]
- When the "MAIN Assy" is replaced, adjustments should conform to the adjusting item of [1, 2] specified below.

#### 1. Adjustments after the replacement of the MAIN Assy (Using the remote control)

#### 1-1. Product serial No. registration

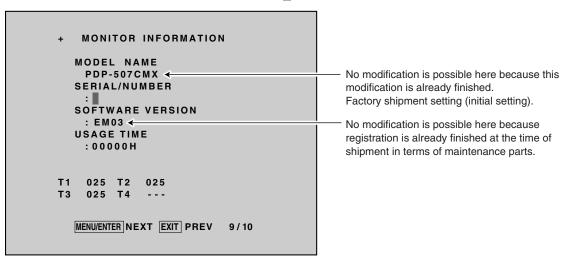
- (1) Press the keys in the order of [PIP SHIFT] → [SET] → [Clear] → [PIP SHIFT] in order to enter the factory adjustment menu.
- (2) Press the [Clear] or [ID No. set] key to select the [MONITOR INFORMATION] No. menu. (Example: PDP-507CMX)

+ MONITOR INFORMATION

MODEL NAME
PDP-507CMX
SERIAL/NUMBER
:
SOFTWARE VERSION
: EM03
USAGE TIME
: 00000H

T1 025 T2 025
T3 025 T4 ---

(3) Press the [SCREEN SIDE] key 4 times to display a cursor ■ in the lower column of [SERIAL/NUMBER].



- (4) Moving the keys of [ ▲ ] and [ ▼ ], select the numerals and characters of the serial number that is listed in the serial label located on the rear surface of the product. Register the serial number. (Blank → 0 to 9→A to Z)
- (5) Moving the keys of [  $\blacktriangleleft$  ] and [  $\blacktriangleright$  ], select the next digit by means of a cursor.
- (6) Repeat the processes of (4) and (5) above and register the serial number completely.

151

8

#### 2-2. Factory shipment setting (Initial setting)

- (1) Press the  $[{f CLEAR}]$  or  $[{f ID}$  SELECT] key to select the  $[{f FUNCTION}]$  menu.
- (2) Move the keys of [ ▲ ] and [ ▼ ] to the item of [SHIP]. Then, move the keys of [ ◄ ] and [ ▶ ] to select [DESTINATION ALPHABETS] shown below. (The asterisks \* shown below denote the numerals or the characters.)

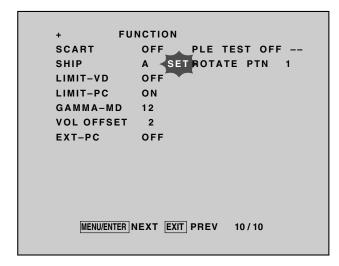
A : PDP-507CMX
J : PDP-507CMX-JP
G : PDP-50MXE20
GS : PDP-50MXE20-S

В

**FUNCTION** SCART OFF PLE TEST OFF --SHIP Α ROTATE PTN 1 LIMIT-VD OFF LIMIT-PC ON GAMMA-MD 12 VOL OFFSET 2 EXT-PC OFF MENU/ENTER NEXT EXIT PREV

(3) Press the keys in the order of [MUTE]→[ ▲ ]→[ ▼ ]→[MUTE] to make "Factory shipment setting". When "Factory shipment setting" is executed, the red characters of [SET] is shown for about 5 seconds on the right side of the [DESTINATION ALPHABETS].

The setting is finished when these red characters of [SET] go out. In regard to the factory shipment setting values, refer to the descriptions given below.



(4) Press the keys of the remote control in the order of [PIP SHIFT] → [SET] → [CLEAR] → [PIP SHIFT] in order to withdraw from the Factory shipment setting.

### [Factory shipment setting values]

1. Initial setting values for the user menu (applicable in common to all models)

MENU	A, J, G, GS
VOLUME	10 step
INPUT MODE	INPUT1
WIDE MODE	FULL
LANGUAGE	ENGLISH
ENERGY SAVE	STANDARD1

2. Field menu initial setup values (applicable in common to all models)

ME	ENU	A J		G	GS	
	SHIP	Α	A J G			
	PSC-LIMIT	OFF				
	LIMIT-PC		0	N		
	U-SCAN		O	FF		
	V-FREQ OT	60Hz				
SERVICE	V-FREQ VD	60Hz				
	SYNCLEVEL1	TTL				
	SYNCLEVEL2		T	TL		
	DVI-SEL		H	OCP		
	SUB-ORB		0	N		
	PIC FREEZE	ON				
MONITOR INFORMATION	MODEL NAME	PDP-507CMX	PDP-507CMX-JP	PDP-50MXE20	PDP-50MXE20-S	

3. Initial setting values for the Factory shipment setting menu

The table shown below specifies only the items that can be changed in the factory adjusting mode. Therefore, any setting values of the items not specified below cannot be modified.

MENU		Α	J	G	GS
FUNCTION	SHIP	Α	J	G	GS
FUNCTION	LIMIT-PC	ON	ON	ON	ON
MONITOR INFORMATION	SERIAL/ NUMBER	_	_	-	_

153

В

С

D

Е

## 8.4 PANEL FACTORY MENU MODE

#### **■** Operation Items

В

A This is the menu screen for the adjustment of the panel. Data acquisition and value adjustment can be performed for the following items:

No.	Indication	Description of functions	
8.4.1	PANEL INFORMATION	Data, such as the version of the microcomputer of the panel, product serial number, and statuses of memories for adjustment values for the main unit and for backup, are displayed.	
8.4.2	PANEL WORKS	Operation data, such as accumulated pulse-meter count, accumulated hour-meter count, accumulated power-on count, and the temperature detected by the sensor, are displayed.	
8.4.3	POWER DOWN	The power-down history is displayed, with the hour-meter values that indicate the hour values when power-downs occurred.	
8.4.4	SHUT DOWN	The shutdown history is displayed, with the hour-meter values that indicate the hour values when shutdowns occurred.	
8.4.5	PANEL-1 ADJ (+)	Settings of the driving pulse timing and driving voltage can be performed.	
8.4.6	PANEL-2 ADJ (+)	White balance and ABL (power consumption) for the panel can be set.	
8.4.7	PANEL REVISE (+)	The level for correction of panel degradation can be set.	
8.4.8	ETC. (+)	Copying of backup data and clearance of various data can be performed.	
8.4.9	RASTER MASK SETUP (+)	The mask indication (RASTER) can be set and indicated.	
8.4.10	PATTEN MASK SETUP (+)	The mask indication (PATTERN) can be set and indicated.	
8.4.11	COMBI MASK SETUP (+)	The mask indication (COMBI) can be set and indicated.	

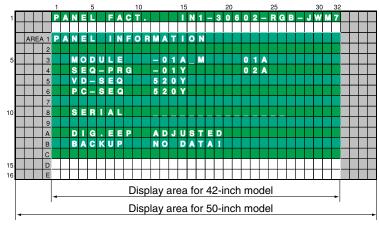
154

Е

PDP-507CMX

#### 8.4.1 PANEL INFORMATION

Data, such as the version of the microcomputer of the panel, product serial number, and statuses of memories for
adjustment values for the main unit and for backup, are displayed. No other layers are nested below this layer, and
there are no adjustment items.



#### ■ Key operation

<DOWN> : Shifting to PANEL WORKS <UP> : Shifting to COMBI MASK SETUP

В

С

D

Ε

(+)

<L/R> : Updating displayed information

#### ■ Display items:

MODULE : The version of data written in the Module microcomputer (IC3151) is indicated.

SEQ-PRG: The version of data written in the Sequence Program Storage Memory (IC3301) is indicated.

VD-SEQ : The Drive Sequence version for Video mode is indicated. PC-SEQ : The Drive Sequence version for PC mode is indicated.

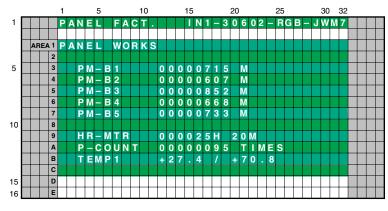
SERIAL : The serial number of the module is indicated.

DIG.EEP: The adjusted status of the EEPROM that is mounted on the DIGITAL Assy is indicated.

BACKUP: The adjusted status of the EEPROM for backup that is mounted on the SENSOR Assy is indicated.

#### 8.4.2 PANEL WORKS

• Data on operations, such as the accumulated pulse-meter counts, hour-meter count, power-on count, and temperature detected by the sensor, are sent back. No other layers are nested below this layer, and there are no adjustment items.



#### ■ Key operation

<DOWN> : Shifting to POWER DOWN
<UP> : Shifting to PANEL INFORMATION

<L/R> : Updating displayed information

Temperature unit is " °C (Centigrade) ".

#### ■ Contents of the Display item

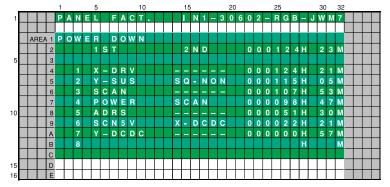
5

- PM-B1 to B5: The accumulated pulse-meter counts for the 5 blocks on the screen are indicated. (the lowest-order digit represents millions of pulses.)
- HR-MTR: The hour-meter value (accumulated power-on hours) is indicated.
- P-COUNT: The accumulated power-on count is indicated.
- TEMP1: The current panel temperature and the historical maximum temperature recorded in memory are indicated. The range of temperature indication is from -50.0 to +99.9. (The temperature unit is " °C (Centigrade) ".)

#### 8.4.3 POWER DOWN

Α

• The power-down history is displayed. The last most 8 power-down histories are displayed with the hour-meter values that indicate the hours when power-downs occurred. No other layers are nested below this layer, and there are no adjustment items.



#### ■ Key operation

<DOWN> : Shifting to SHUT DOWN <UP> : Shifting to PANEL WORKS <L/R>: Updating displayed information

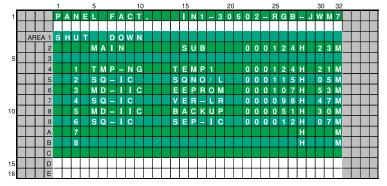
#### <Causes of power-down and corresponding OSD indications>

Cause of power-down	OSD Indication	Cause of power-down	OSD Indication
POWER SUPPLY Unit	P-PWR	ADDRESS Assy	ADRS
SCAN Assy	SCAN	X DRIVE Assy	XDRV
5V power for SCAN Assy	SCAN5V	DC/DC converter for X drive	X-DCDC
Y DRIVE Assy	YDRV	X-drive SUS circuit	X-SUS
DC/DC converter for Y drive	Y-DCDC	Specification inability	UNKNOWN
Y-drive SUS circuit	Y-SUS		

- \* When power-down is confirmed, the factor is displayed as "1st", "2nd", according to the accuracy order.
- \* The power-down history is not recorded when the power-down occurred at the same place and same time.

#### 8.4.4 SHUT DOWN

 The shutdown history is displayed. The last most 8 shutdown histories are displayed with the hour-meter values that indicate the hours when shutdowns occurred. No other layers are nested below this layer, and there are no adjustment items.



#### ■ Key operation

<DOWN> : Shifting to PANEL-1 ADJ (+) <UP> : Shifting to POWER DOWN <L/R>: Updating displayed information

\* When there is detail information when shutdown occurred, the possible defective part is displayed as Sub information.

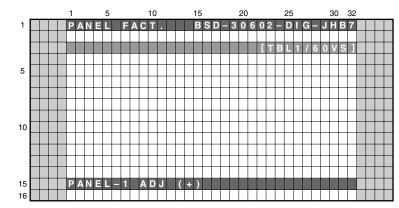
#### <Causes of shut-down and corresponding OSD indications>

Cause of shut-down (MAIN)		Subcategory of Cause of shut-down (SUB)		
Item OSD Indication		Item	OSD Indication	
Drive Sequence Processing IC	SQ-IC	Communication Error	RTRY	
		Drive Sequence Stop	SQNO	
		Communication Busy	BUSY	
		Version Mismatching	VER-HS	
MDU-IIC	MD-IIC	MAIN EEPROM Communication Error	EEPROM	
		BACKUP EEPROM Communication Error	BACKUP	
		DAC Communication Error	DAC	
High temperature of the panel	TMP-NG	Temperature NG	TEMP	

156

Ε

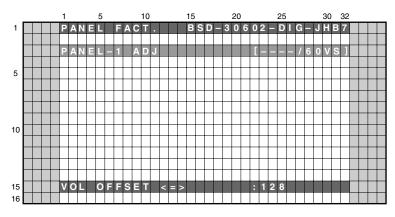
• Timing and voltage for the driving pulse are set. At the upper right of the screen, the wb table and frequency table indicating operation status are displayed, and at the lower left of the screen, the item for the upper nested layer (PANEL-1 ADJ [+]) is displayed. Pressing the SET key shifts the screen to the next nested layer below for item selection.



■ Key operation

<DOWN> : Shifting to PANEL-2 ADJ (+) <UP> : Shifting to SHUT DOWN <SET> : Shifting to the next nested layer

When the screen is shifted to the next nested layer below, a subitem is indicated on the 3rd line, and detailed data are indicated on the 15th line.



#### ■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<VOL+> : Adding by 10 to the adjustment

value

<VOL-> : Subtracting by 10 from the

adjustment value

<SET> : Determining the adjustment value

and shifting to the upper layer

- When the screen is shifted to the next nested layer below, a subitem is indicated on the 3rd line, and detailed data are indicated on the 15th line.
- When the screen is shifted to this layer while the RASTER MASK is selected, the Panel W/B setting is temporarily set to default.

#### <Lower-layer items of PANEL-1 ADJ>

5

No.	Items	Adjustment/Setting Value	RS-232C Command
1	X-SUS B <=>	120 to 136	XSB
2	Y-SUS B <=>	120 to 136	YSB
3	Y-SUSTAIL T1 <=>	120 to 136	YTG
4	Y-SUSTAIL T2 <=>	120 to 136	YTB
5	Y-SUSTAIL W <=>	120 to 136	YTW
6	XY-RST W1 <=>	120 to 136	RSW
7	XY-RST W2 <=>	120 to 136	RYW
8	VOL SUS <=>	000 to 255	VSU
9	VOL OFFSET <=>	000 to 255	VOF
10	VOL RST P <=>	000 to 255	VRP
11	SUS FREQ. <=>	MODE1 to MODE8	SFR

157

В

С

D

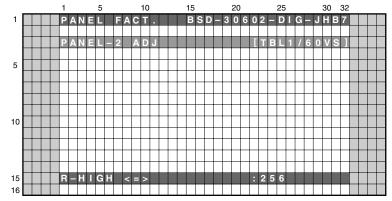
Ε

В

RGB gain adjustment can be performed. Pressing the SET key shifts the screen to the next nested layer below for item selection.

#### ■ Key operation

<DOWN> : Shifting to PANEL REVISE (+) <UP> : Shifting to PANEL-1 ADJ (+) <SET> : Shifting to the next nested layer



The ABL/WB adjustment values are divided into 4 tables for each drive sequence. The table No. and adjustment value of the current drive sequence are indicated at right on the 3rd line on the screen.

### ■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<VOL+> : Adding by 10 to the adjustment

value

<VOL-> : Subtracting by 10 from the

adjustment value

<SET> : Determining the adjustment value

and shifting to the upper layer

#### Sequence and Adjustment value

Sequence	Video 50 Hz	Video 60 Hz	Video 72 Hz	Video 75 Hz	PC 70 Hz
Adjustment value table	TBL 2	TBL 1	TBL 1	TBL 3	TBL 4

#### <Lower-layer items of PANEL-2 ADJ>

No.	Items	Adjustment/Setting Value	RS-232C Command
1	R-HIGH <=>	000 to 511	PRH
2	G-HIGH <=>	000 to 511	PGH
3	B-HIGH <=>	000 to 511	PBH
4	R-LOW <=>	000 to 999	PRL
5	G-LOW <=>	000 to 999	PGL
6	B-LOW <=>	000 to 999	PBL
7	ABL <=>	000 to 255	ABL

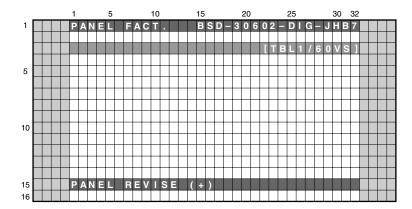
158

Ε

\_

### 8.4.7 PANEL REVISE (+)

• The degradation compensation level for white balance can be set.



#### ■ Key operation

<DOWN> : Shifting to ETC.(+)

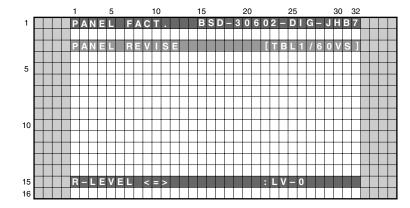
<UP> : Shifting to PANEL-2 ADJ (+)<SET> : Shifting to the next nested layer

В

С

D

Ε



#### ■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<SET> : Determining the setting value

and shifting to the upper layer

#### < Lower-layer items of PANEL REVISE (+) >

5

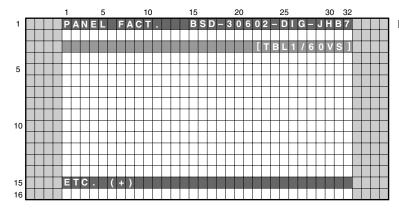
No.	Items	Adjustment/Setting Value	RS-232C Command		
1	R-LEVEL <=>	LV-0 to LV-7	RRL		
2	G-LEVEL <=>	LV-0 to LV-7	RGL		
3	B-LEVEL <=>	LV-0 to LV-7	RBL		

8.4.8 ETC. (+)

В

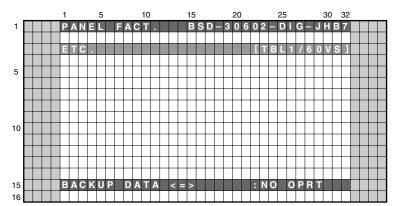
С

• Settings concerning backup of adjustment values and clearance of the histories can be made.



#### ■ Key operation

<DOWN> : Shifting to RASTER MASK SETUP (+) <UP> : Shifting to PANEL REVISE (+) <SET> : Shifting to the next nested layer



#### **■** Key operation

<DOWN> : Shifting to the next item <UP> : Shifting to the previous item <RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<SET> : Determining the setting value

and shifting to the upper layer

#### <Lower-layer items of ETC.>

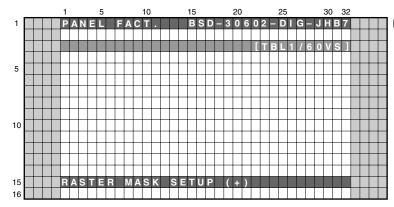
	,			
No.	Items	Adjustment/Setting Value	RS-232C Command	
1	BACKUP DATA <=>	NO OPRT <=> TRANSFER or ERR	ВСР	
2	DIGITAL EEPROM <=>	NO OPRT <=> DELETE/REPAIR	FAJ/UAJ	
3	PD INFO. <=>	NO OPRT <=> CLEAR	CPD	
4	SD INFO. <=>	NO OPRT <=> CLEAR	CSD	
5	HR-MTR INFO. <=>	NO OPRT <=> CLEAR	CHM	
6	PM/B1-B5 <=>	NO OPRT <=> CLEAR	СРМ	
7	P-COUNT INFO. <=>	NO OPRT <=> CLEAR	CPC	
8	MAX TEMP. <=>	NO OPRT <=> CLEAR	CMT	

Ε

PDP-507CMX

### 8.4.9 RASTER MASK SETUP (+)

• Setting of RASTER MASK and setting of drive sequence during Raster Mask mode can be made.

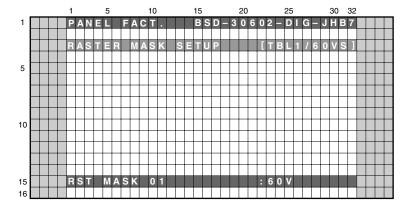


#### ■ Key operation

<DOWN> : Shifting to PATTEN MASK SETUP(+)

<UP> : Shifting to ETC. (+)

: Shifting to the next nested layer <SET>



#### ■ Key operation

<DOWN> : Shifting to the next MASK : Shifting to the previous MASK <RIGHT> : Changing MASK sequence (+) <LEFT> : Changing MASK sequence (-) : Determining the setting value <SET>

and shifting to the upper layer

В

С

D

Ε

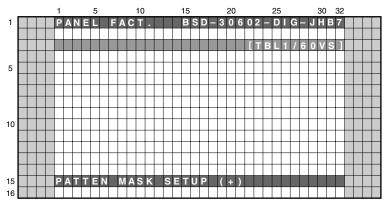
#### <Lower-layer items of RASTER MASK SETUP>

No.	Items	Adjustment/Setting Value	RS-232C Command
1	MASK OFF		MKS+S00
2	PTN MASK 01 <=>	<pre>&lt;=&gt; 48V &lt;=&gt; 50V &lt;=&gt; 60V &lt;=&gt; 60P &lt;=&gt; 70P &lt;=&gt; 72V &lt;=&gt; 75V &lt;=&gt;</pre>	MKS+S51
3	•••	(Each sequence can be selected.)	•••
4	PTN MASK 24 <=>		MKS+S74

- The MASK indication sequence can be changed among 48V, 50V, 60V, 72V, 75V, 60P, and 70P, using the Right or Left key. The selected sequence and the ABL/WB table are retained until the mask is turned off.
- 48V and 60P are represented by 50V and 60V, respectively. The ABL/WB table is changed to the PC table.

## 8.4.10 PATTERN MASK SETUP (+)

• Setting of PATTERN MASK and setting of drive sequence during Pattern Mask mode can be made.

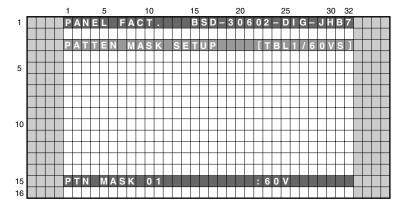


#### ■ Key operation

<DOWN> : Shifting to COMBI MASK SETUP (+) <UP> : Shifting to RASTER MASK SETUP

(+)

<SET> : Shifting to the next nested layer



#### ■ Key operation

<DOWN> : Shifting to the next MASK <UP> : Shifting to the previous MASK <RIGHT> : Changing MASK sequence (+) <LEFT> : Changing MASK sequence (-) <SET> : Determining the setting value

and shifting to the upper layer

#### <Lower-layer items of PATTERN MASK SETUP (+) >

No.	Items	Adjustment/Setting Value	RS-232C Command
1	MASK OFF		MKS+S00
2	RST MASK 01 <=>	<pre>&lt;=&gt; 48V &lt;=&gt; 50V &lt;=&gt; 60V &lt;=&gt; 60P &lt;=&gt; 70P &lt;=&gt; 72V &lt;=&gt; 75V &lt;=&gt;</pre>	MKS+S01
3	•••	(Each sequence can be selected.)	•••
4	RST MASK 39 <=>		MKS+S39

- The MASK indication sequence can be changed among 48V, 50V, 60V, 72V, 75V, 60P, and 70P, using the Right or Left key. The selected sequence and the ABL/WB table are retained until the mask is turned off.
- 48V and 60P are represented by 50V and 60V, respectively. The ABL/WB table is changed to the PC table.

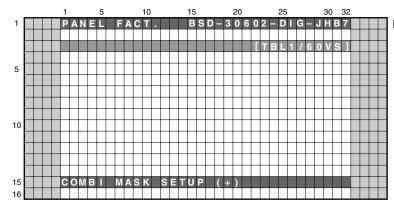
162

Ε

В

## 8.4.11 COMBI MASK SETUP (+)

• Setting of COMBI MASK and setting of drive sequence during Combi Mask mode can be made.



#### ■ Key operation

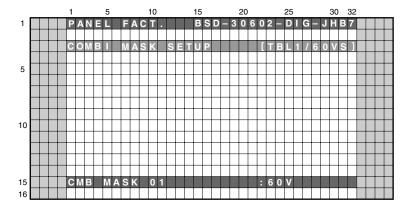
<DOWN> : Shifting to PANEL INFORMATION

(+)

<UP> : Shifting to RASTER MASK SETUP

(+)

<SET> : Shifting to the next nested layer



#### **■** Key operation

<DOWN> : Shifting to the next MASK <UP> : Shifting to the previous MASK <RIGHT> : Changing MASK sequence (+) <LEFT> : Changing MASK sequence (-) <SET> : Determining the setting value

and shifting to the upper layer

#### <Lower-layer items of COMBI MASK SETUP (+) >

No.	Items	Adjustment/Setting Value	RS-232C Command
1	MASK OFF		MKC+S00
2	CMB MASK 01 <=>	<pre>&lt;=&gt; 48V &lt;=&gt; 50V &lt;=&gt; 60V &lt;=&gt; 60P &lt;=&gt; 70P &lt;=&gt; 72V &lt;=&gt; 75V &lt;=&gt;</pre>	MKC+S01
3	•••	(Each sequence can be selected.)	•••
4	CMB MASK 10 <=>		MKC+S10

- The MASK indication sequence can be changed among 48V, 50V, 60V, 72V, 75V, 60P, and 70P, using the Right or Left key. The selected sequence and the ABL/WB table are retained until the mask is turned off.
- 48V and 60P are represented by 50V and 60V, respectively. The ABL/WB table is changed to the PC table.

163

Ε

В

С

### 9. LIST OF RS-232C COMMANDS

#### 9.1 RS-232C COMMANDS OUTLINE

#### 9.1.1 PREPARED TOOLS

It is necessary to prepare the following tools to use RS-232C command.

- PC
- Application for control
- 232C cable (straight)
- \* It is not likely to operate correctly in Win98 function/ ME and Win for foreign countries.
- \* The setting of the Comport cannot be communicated if it has not been done correctly. (Please follow a operating instructions of the PC about the Com port.)

#### 9.1.2 COMMAND PROTOCOL

■Communication protocol: Asynchronous serial communication by RS-232C

Start bit length

Data width : 8 bit (ASCII code/ no distinction between upper case and lower case)

: None Parity Stop bit length : 1 bit

Baud rate : 1200/2400/4800/19200/38400 bps (Initial value : 9600 bps)

#### Adjustment function

Direct effectivity of numbers: When a number is transmitted after a command, an adjustment value can be directly set.

The format of the control signal transmitted from the user side controller is as described below. STX (02Hex) is arranged at the time of communication start and ETX (03Hex) is arranged at the time of data transmission complete, and ID, command and parameter are arranged in between. Data consists of ASCII type alphanumeric characters, and there is no distinction between the upper case and the lower case.

> In the case of command only [single function command]

STX	ID	Command	ETX		
0x02	**		0x03		

When setting/adjustment data is accompanied [setting/adjustment command]

3

STX			Parameter	ETX
0x02	**		$\Delta\Delta\Delta$	0x03

#### ■Command processing

Command processing starts as soon as the command is entered.

ID shall be the two asterisks, "\*\*".

#### ■Confirmation of reception

The module microcomputer will make judgment to the command received from the main side, and if the command is judged to be an effective one, processing will be executed. When the system is in the standby status for the next command after completion of the processing, a reply to the received command is sent out. The data to be responded is a data in the upper case after deleting the ID code from the received command.

> When setting/adjustment data is accompanied Data transmitted from PC

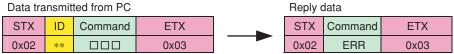
Data transmitted from PC					Reply of	data		
STX	ID	Command	Parameter	ETX	STX	Command	Parameter	ET)
0x02	**		ΔΔΔ	0x03	0x02		ΔΔΔ	0x0

In the case of command only

Data tra	ınsmit	ted from PC		Reply data			
STX	ID	Command	ETX		STX	Command	ETX
0x02	**		0x03		0x02		0x03

When responding, ERR is sent back if the command is unknown, and XXX is sent back if the command itself is valid but it cannot be processed because of its status.

In the case of invalid command



In the case of a command not executable due to its status

Data transmitted from PC Reply data

Data tra		tod from 1 O		i iopiy (	Jala	
STX	ID	Command	ETX	STX	Command	ETX
0x02	**		0x03	0x02	XXX	0x03

#### ■Processing in the case of an error

If a communication error occurs between STX and ETX, processing of that command is stopped, and the reception buffer is cleared. In the command reception process, the character string transmitted after the receipt of STX are continued to be stored in the register. and by receipt of ETX, the character string sandwiched between STX and ETX is recognized as a command. If the prepared character string storage buffer (24 bytes including STX, ID and ETX) is exceeded, a reply will not be sent out.

164

PDP-507CMX

В

С

D

Ε

#### ■Single function command

It is a command that a command alone will complete an operation, and the command section consists of three characters.

Data transmitted from PC Reply data STX ID STX Command **ETX** Command **ETX** 0x02 \*\* 0x03 0x02 0x03

#### ■Adjustment command and adjustment value

It is a command, accompanied by an adjustment value, to change the parameter value, and the command section is also three characters as in the case of a single function command. The adjustment value is a three character decimal numerical data within the range of 000-999. Incidentally, the adjustable range will be different depending on the function to be adjusted. (Be careful as it is not always up to 999.)

Data transmitted from PC						Reply data				
STX	ID	Command	Parameter	ETX	ST	TX	Command	Parameter	ETX	
0x02	**	CNT	128	0x03	0x0	(02	CNT	128	0x03	

- \* XXX will be transmitted if the received command is exceeding the adjustable range of the adjustment value.
- \*When the same setting value is transmitted consecutively for two times or more, the setting is overwritten without responding with XXX even though the command is invalid, and an ACK after deleting the ID is sent back.

#### ■Setting command and setting value

It is a command, accompanied by a setting value, to change the setting value of the parameter, and the command section consists of three characters. The setting value consists of three characters, and the first character is fixed to S and the remaining two characters are decimal numbers within the range of S00-S99.

Data transmitted from PC							Reply data			
STX	ID	Command	Parameter	ETX		STX	Command	Parameter	ETX	
0x02	**	MKS	S02	0x03		0x02	MKS	S02	0x03	

- \*XXX will be transmitted if the received command does not exist as a setting value.
- \*When the same setting value is transmitted consecutively for two times or more, the setting is overwritten without responding with XXX even though the command is invalid, and an ACK after deleting the ID is sent back.

#### ■Status acquisition (QUEST) command

This is a command to report the operational status and the setting value to the system side.

When a command is received from the system side, an applicable content depending on the type of command is read out from the memory and sent back.

The command section consists of three characters, and the first character is fixed to Q. The second character and on are set depending on the content of the information.

When sending back a reply data, the received command, various data converted to ASCII code and checksum of that data are

The data length will be subject to each individual specification as the content of a reply will be different depending on the type of QUEST command.

Data tra	ınsmit	ted from PC		Reply data						
STX	ID	Command	ETX		STX	Command	Parameter	ETX		
0x02	**	QS1	0x03		0x02	QS1	•••••	0x03		

## 9.2 LIST OF RS-232C COMMANDS

#### ■ Normal operation related command

Α

В

		Nur	neric Direct	input	Last	_
Command	Operation	Validity	Minimum	Maximum	Memory	Remarks
POWER						
POF	Turning the power OFF				0	
PON	Turning the power ON				0	
NPUT SELECT						
INP	Indicating the input data at present					
INPS01	Switching the main screen to input 1				0	
INPS02	Switching the main screen to input 2				0	
INPS03	Switching the main screen to input 3				0	
INPS04	Switching the main screen to input 4				0	
INPS05	Switching the main screen to input 5				0	
IN1	Switching the main screen to input 1				0	
IN2	Switching the main screen to input 2				0	
IN3	Switching the main screen to input 3				0	
IN4	Switching the main screen to input 4				0	
IN5	Switching the main screen to input 5				0	
SSIS01	Switching the sub screen to input 1				0	
SSIS02	Switching the sub screen to input 2				0	
SSIS03	Switching the sub screen to input 3				0	
SSIS04	Switching the sub screen to input 4				0	
SSIS05	Switching the sub screen to input 5				0	
SWM	Full-screen outputs the main input				0	
SWS	Full-screen outputs the sub input				0	
SCREEN SIZE	The state of the s	l .				
AST	Execution of auto setup				0	
SZM	Indicating the screen-size at present					
					0	
SZMS00	Setting the screen size to Dot by Dot				0	
SZMS01	Setting the screen size to 4:3				0	
SZMS02	Setting the screen size to FULL					
SZMS03	Setting the screen size to ZOOM				0	
SZMS05	Setting the screen size to WIDE				0	
SZMS06	Setting the screen size to 14:9				0	
SZMS09	Setting the screen size to UNDERSCAN				0	
SZMS10	Setting the screen size to 2.35:1				0	
VIDEO						
PMTS00	Turning the video mute OFF				0	
PMTS01	Turning the video mute ON				0	
STLS00	Cancelling the video freeze				0	
STLS01	Freezing the video				0	
AUDIO						
VOL	Adjusting the audio volume	0	000	042	0	
AMTS00	Turning the audio mute OFF				0	
AMTS01	Turning the audio mute ON				0	
AUSS01	Setting the audio source to main				0	
AUSS02	Setting the audio source to sub				0	
MULTI SCREEN						
MSC	Indicating the multi screen at present					
MSCS00	Setting the multi screen to OFF				0	
MSSS01	Setting the PinP sub-screen size to 1				0	
MSSS02	Setting the PinP sub-screen size to 2				0	
					0	
MSSS03	Setting the PinP sub-screen size to 3		-		0	
MSSS04	Setting the PinP sub-screen size to 4		-		U	
MST	Indicating the multi screen type at present					
MSTS01	Setting the multi screen to 2_SCREEN (side by side 1)		-		0	
MSTS02	Setting the multi screen to PinP (lower right)				0	
MSTS03	Setting the multi screen to PinP (upper right)				0	
MSTS04	Setting the multi screen to PinP (upper left)				0	
MSTS05	Setting the multi screen to PinP (lower left)				0	
MSTS06	Setting the multi screen to PoutP (side by side 2-L)				0	
MSTS08	Multi screen SWAP (Switch the main/sub screen)				0	
MSTS09	Setting the multi screen to PoutP (side by side 2-R)				0	
MSTS10	Setting the multi screen to 2_SCREEN (side by side 3)				0	
MSTS11	Setting the multi screen to PoutP (side by side 4-L)				0	
			1		-	
MSTS12	Setting the multi screen to PoutP (side by side 4-R)				0	

166

Ε

7

6

#### ■ [MENU] - [SETUP] related command

5

5

Command	Operation	Nui	meric Direct	input	Last	Remarks
Command	Operation	Validity	Minimum	Maximum	Memory	Hemarks
OLOR TEMP.						
CTP	Indicating the setting value on color temperature					
CTPS01	Setting the color temperature to LOW				0	
CTPS02	Setting the color temperature to MID LOW				0	
CTPS03	Setting the color temperature to MID LOW				0	
CTPS04	Setting the color temperature to MID HIGH				0	
CTPS05	Setting the color temperature to HIGH				0	
NR						
DNR	Indicating the setting value on DNR at present					
DNRS00	Setting the digital NR to OFF				0	
DNRS01	Setting the digital NR to LOW				0	
DNRS02	Setting the digital NR to MIDDLE				0	
DNRS03	Setting the digital NR to HIGH				0	
IPEG NR						
MNR	Indicating the setting value on MPEG NR at present					
MNRS00	Setting the MPEG NR to OFF				0	
MNRS01	Setting the MPEG NR to LOW				0	
MNRS02	Setting the MPEG NR to MIDDLE				0	
MNRS03	Setting the MPEG NR to HIGH				0	
TI						
CTR	Indicating the setting value on CTI at present					
CTRS00	Turning the CTI OFF				0	
CTRS01	Turning the CTI ON				0	
PURE CINEMA						
PUC	Indicating the setting value on pure cinema at present					
PUCS00	Turning the pure cinema OFF				0	
PUCS01	Setting the pure cinema to STANDARD				0	
COLOR DECORDING	Setting the pure chieffia to STANDATID				0	
MCD	Indicating the COLOR DECORDING at present					
MCDS01	Indicating the COLOR DECORDING at present				0	
MCDS02	Setting the color difference selection to RGB (VIDEO)				0	
	Setting the color difference selection to COMPONENT1 (Y CbCr)				0	
MCDS03	Setting the color difference selection to COMPONENT2 (Y PbPr)				0	
COLOR SYSTEM	la l'articolle collecte de la collec					
CLS	Indicating the setting value on color system at present				0	
CLSS01	Setting the color system to AUTO				0	
CLSS02	Setting the color system to NTSC				0	
CLSS03	Setting the color system to PAL				0	
CLSS04	Setting the color system to SECAM				0	
CLSS05	Setting the color system to 4.43NTSC				0	
CLSS06	Setting the color system to PAL M				0	
CLSS07	Setting the color system to PAL N				0	
IGNAL FORMAT						
SFT	Indicating the setting value on signal format at present					
SFTS01	Setting the signal format to Type1				0	
SFTS02	Setting the signal format to Type2				0	
SFTS03	Setting the signal format to Type3				0	
SFTS04	Setting the signal format to Type4				0	
SFTS05	Setting the signal format to Type5				0	
SFTS06	Setting the signal format to Type6				0	
SFTS07	Setting the signal format to Type7				0	
SFTS08	Setting the signal format to Type8				0	

167

В

С

D

Ε

F

PDP-507CMX

**■** 2 **■** 3 **■** 4

Numeric Direct input Last Memory Operation Remarks Command Validity Minimum Maximum 0 SFTS09 Setting the signal format to Type9 0 SFTS20 Setting the signal format to Type10 0 SFTS10 Setting the signal format to AUTO DVI DSGS01 Setting the DVI connecting signal to PC 0 0 DSGS02 Setting the DVI connecting signal to VIDEO 0 DBLS01 Setting the DVI black level to LOW DBLS02 Setting the DVI black level to HIGH 0

#### ■ [MENU] - [OPTION] related command

Α

В

D

Е

[MENU] - [OPTION] re	erated Command					1
l		Nu	meric Direct	input	Last	
Command	Operation	Validity	Minimum	Maximum	Memory	Remarks
ENERGY SAVE						
ESV	Indicating the setting value to power-saving at present					
ESVS00	Turning the power-saving setting to standard 1				0	
ESVS01	Turning the power-saving setting to mode 1 (power save)				0	
ESVS02	Turning the power-saving setting to mode 2 (brightness fixing)				0	
ESVS03	Turning the power-saving setting to mode 3 (longevity life)				0	
ESVS04	Turning the power-saving setting to auto				0	
ESVS05	Turning the power-saving setting to display off (video mute)				0	
ESVS06	Turning the power-saving setting to standard 2				0	
TIMER						
TSMS00	Turning the summer time OFF				0	
TSMS01	Turning the summer time ON				0	
TPH	Setting the time of current time	0	000	023	0	000~023 : setting by 24 hours
TPM	Setting the minute of current time	0	000	059	0	000~059 : setting by 60 minits
TPW	Setting the day of current time	0	001	007	0	001 : Sunday~007 : Saturday
TPTS00	Turning the program timer/repeat timer OFF				0	
TPTS01	Setting the timer to program timer				0	
TPTS02	Setting the timer to repeat timer				0	
ORBITER			•			
ORBS00	Turning the orbiter OFF				0	
ORBS01	Turning the orbiter ON (AUTO1)				0	
ORBS02	Turning the orbiter ON (AUTO2)				0	
ORBS03	Turning the orbiter ON (AUTO3)				0	
SOFT FOCUS						
SOFS00	Turning the soft focus OFF				0	
SOFS01	Setting the soft focut to 1				0	
SOFS02	Setting the soft focut to 2				0	
SOFS03	Setting the soft focut to 3				0	
SOFS04	Setting the soft focut to 4				0	
SUB SCREEN FREEZE						
SSTS00	Setting the sub screen FREEZE to OFF				0	
SSTS01	Setting the sub screen FREEZE to SIDE BY SIDE				0	
SSTS02	Setting the sub screen FREEZE to PinP				0	

168

4

#### ■ [INTEGRATOR] - [PICTURE] related command

5

		Nun	neric Direct	input	Last	_
Command	Operation	Validity	Minimum	Maximum	Momery	Remarks
VIDEO QUALITY						
CNT	Adjusting the contrast	0	000	255	0	
BRT	Adjusting the brightness	0	000	255	0	
ENH	Adjusting the horizontal enhance	0	000	015	0	
ENV	Adjusting the vertical enhance	0	000	015	0	
COL	Adjusting the color	0	000	127	0	
TNT	Adjusting the tint	0	000	060	0	
SHP	Adjusting the sharpness	0	000	015	0	
WHITE BALANCE						
RHI	Adjusting the R.HIGH	0	000	255	0	
GHI	Adjusting the G.HIGH	0	000	255	0	
BHI	Adjusting the B.HIGH	0	000	255	0	
GLW	Adjusting the G.LOW	0	000	255	0	
RLW	Adjusting the R.LOW	0	000	255	0	
BLW	Adjusting the B.LOW	0	000	255	0	
COLOR DETAIL						
CGR	Adjusting the color detail red	0	000	060	0	
CGY	Adjusting the color detail yellow	0	000	060	0	
CGG	Adjusting the color detail green	0	000	060	0	
CGC	Adjusting the color detail cyan	0	000	060	0	
CGB	Adjusting the color detail blue	0	000	060	0	
CGM	Adjusting the color detail magenta	0	000	060	0	
GAMMA						
GRA	Indicating the setting value on gradation at present					
GRAS18	Setting the gradation to "GAMMA 1.8"				0	
GRAS19	Setting the gradation to "GAMMA 1.9"				0	
GRAS20	Setting the gradation to "GAMMA 2.0"				0	
GRAS21	Setting the gradation to "GAMMA 2.1"				0	
GRAS22	Setting the gradation to "GAMMA 2.2"				0	
GRAS23	Setting the gradation to "GAMMA 2.3"				0	
GRAS24	Setting the gradation to "GAMMA 2.4"				0	
PRESET						
STD	Returning the PICTURE and W/B of integrator to the factory shipment value				0	

#### ■ [INTEGRATOR] - [SCREEN] related command

			lumeric Dire	t input	Last	
Command	Operation	Validi	y Minimur	Maximum	Momery	Remarks
POSITION	·					
HPS	Adjusting the horizontal position	0	000	255	0	
VPS	Adjusting the vertical positiaon	0	000	255	0	
CLOCK/PHASE						
CFR	Adjusting the CLOCK (PLL frequency)	0	000	255	0	
CPH	Adjusting the PHASE (PLL phase)	0	000	031	0	
SIZE						
HSI	Adjusting the horizontal size	0	000	064	0	
VSI	Adjusting the vertical size	0	000	064	0	
PRESET	·	•				
FRP	Initializing each adjustment value of integrator/screen				0	

#### ■ [INTEGRATOR] - [SETUP] related command

5

Command	Operation	Num	neric Direct	input	Last	Domonika		
Command	Operation	Validity	Minimum	Maximum	Momery	Remarks		
SUB VOLUME								
SVL	Adjusting the sub volume	0	000	020	0			

169

F

В

С

D

Е

PDP-507CMX

6

Α

В

С

2

3

		Nur	neric Direct	input	Last	
Command	Operation	Validity	Minimum	Minimum	Memory	Remarks
CREEN MASK						
FMK	Indicating the setting value on screen mask at present					
FMKS00	Turning the screen mask OFF				0	
FMKS02	Turning the screen mask to inverse (negative positive inversion)				0	
FMKS03	Turning the screen mask to white mask				0	
FMKS04	Turning the screen mask to red mask				0	
FMKS05	Turning the screen mask to green mask				0	
FMKS06	Turning the screen mask to green mask  Turning the screen mask to blue mask				0	
					0	
FMKS07	Turning the screen mask to yellow mask				0	
				T		
RSL	Adjusting the side mask RED	0	000	255	0	
GSL	Adjusting the side mask GREEN	0	000	255	0	
BSL	Adjusting the side mask BLUE	0	000	255	0	
SMAS00	AUTO SIDE MASK function OFF					
SMAS01	AUTO SIDE MASK function ON					
IDEO WALL						
MGF	Indicating the setting value on video wall					
MGFS00	Turning the video wall OFF				0	
MGFS11	Setting the video wall to DIVIDER: 1				0	
MGFS12	Setting the video wall to DIVIDER: 2 x 2				0	
MGFS13	Setting the video wall to DIVIDER: 3 x 3				0	
MGFS14	Setting the video wall to DIVIDER: 4 x 4				0	
MGFS15	Setting the video wall to DIVIDER: 5 x 5				0	
MGP	Indicating the video wall (expansion position/joint consideration on or not)					
MGPSnn	nn=01~04:DIVIDER= Set display position of 2 x 2 (there is no joint consideration)				0	
Widi oilii					0	
	nn=05~08:DIVIDER= Set display position of 2 x 2 (there is joint consideration)				0	
	nn=10~18:DIVIDER= Set display position of 3 x 3 (there is no joint consideration)				0	
	nn=20~28:DIVIDER= Set display position of 3 x 3 (there is joint consideration)				-	
	nn=30~3F:DIVIDER= Set display position of 4 x 4 (there is no joint consideration)				0	
	nn=40~4F:DIVIDER= Set display position of 4 x 4 (there is joint consideration)				0	
	nn=50~68:DIVIDER= Set display position of 5 x 5 (there is no joint consideration)				0	
	nn=70~88:DIVIDER= Set display position of 5 x 5 (there is joint consideration)				0	
IDA	Executing the auto ID setting				0	
PDES00	Turning the power-on delay mode OFF				0	
PDES01	Turning the power-on delay mode ON (except for more than 16 sides systems) or setting it to mode 1 (for more than 16 sides systems)				0	
PDES02	Setting the power-on delay mode to mode 2 (for more than 16 sides systems)				0	
LNKS00	Setting the ABL link OFF				0	
LNKS01	Setting the ABL link ON				0	
RS - 232C						
BRA	Indication the setting value on baud rate					
BRAS01	Setting the RS-232C baud rate to 1 200 bps				0	
BRAS02	Setting the RS-232C baud rate to 2 400 bps				0	
BRAS03	Setting the RS-232C baud rate to 4 800 bps				0	
BRAS04	Setting the RS-232C baud rate to 4 600 bps  Setting the RS-232C baud rate to 9 600 bps				0	
			<del>                                     </del>		0	
BRAS05	Setting the RS-232C baud rate to 19 200 bps		-		0	
BRAS06	Setting the RS-232C baud rate to 19 200 bps				0	
D NUMBER						
IDC	Clearing the ID				0	
IDS	Clearing the ID				0	
AN						
FCM	Maximizing the fan roll control				0	
FCA	Turning the fan roll control to auto				0	
FCU	Set the fan rotation control of integrator to the maximum and limit the luminance	).			0	
OSD						
OSDS00	Turning the OSD display OFF				0	
OSDS01	Turning the OSD display ON				0	
OSSS01	Turning the OSD size to enlarged display				0	
OSSS02	Turning the OSD size to child ged display  Turning the OSD size to reduced display				0	
OSAS01	Setting the OSD size to reduced display  Setting the OSD display angle to horizontality				0	
OSAS01			<del>                                     </del>		0	
	Setting the OSD display angle to verticality					
RONT INDICATOR LESS00	Turning the front indicator OFF		Ι	I	0	

170

Ε

PDP-507CMX

\_

Columnate			Nui	neric Direct	input	Last	
CLIMBO   Softing the Color made to NOMM.	Command	Operation	Validity	Minimum	Minimum		Remarks
CLIMBO   Setting the CORP PROCESS TO STATE   CO.	COLOR MODE						
CLASSIC   Marriage		Setting the color mode to NORMAL				0	
MOCRESCON						0	
USCODE   Turning the LANDERSCAN OFF		**************************************				-	
USGS191		Turning the UNDERSCAN OFF				Ο	
MOSE PROCESS		-					
MADE PROCESS						0	
PR		indication the setting value to ondensoare at present					
PRINCID   Selecting the MARCE PROCESS is NORMAL		Assistantia MARCE PROCESSO standardo					
IPPSSSS						0	
PR9503   Setting the MAGE PROCESS to MENOTONIE						-	
PPRS95							
PPRISS							
FPC	IPRS04	Setting the IMAGE PROCESS to HIGH CONTRAST					
FRC	IPRS05	Setting the IMAGE PROCESS to BLUE ONLY				0	
FRCS01	FRC						
FFR.SST	FRC	Indicating the setting value on RFC					
SEAMLESS INPUT SWITCH	FRCS00	Turning the FRC OFF				0	
SLS500   Turning the SEAMLESS input entech mode OFF	FRCS01	Turning the FRC ON				0	
SLSS01   Tuming the SEANLESS SING SELECT 1 to NPUT1	SEAMLESS INPUT SWITCH						
SLSS1	SLSS00	Turning the SEAMLESS input switch mode OFF				0	
SLISOI	SLSS01					0	
SL1502   Setting the SEAMLESS SW SELECT 1 to INPUT2							
SLIS03							
SL1S04   Setting the SEAMLESS SW SELECT 1 to NRVT4   O						-	
SLISO5   Setting the SEAMLESS SW SELECT 1 to INPUTS   O							
SL2501   Setting the SEAMLESS SW SELECT 2 to INPUT?						-	
SL2802   Setting the SEAMLESS SW SELECT 2 to INPUT2						-	
SL2S03   Setting the SEAMLESS SW SELECT 2 to INPUTS   O							
SL2504   Setting the SEAMLESS SW SELECT 2 to INPUTS						-	
MIRROR  MIRSO  I Turning the mirror mode OFF (normal display)  MIRSO  MIRSO  I Turning the mirror mode OFF (normal display)  MIRSO  MIRSO  Reversing the right and left at mirror mode  MIRSO  Reversing the right left and left at mirror mode  MIRSO  Reversing the right left and top bottom at mirror mode  MIRSO  MIRSO  Reversing the sub-screen transmittance to OFF (0%)  PITRSO  Setting the sub-screen transmittance to OFF (0%)  PITRSO  Setting the sub-screen transmittance to 10%  PITRSO  Setting the sub-screen transmittance to 20%  O  PITRSO  Setting the sub-screen transmittance to 30%  PITRSO  Setting the sub-screen transmittance to 30%  PITRSO  Setting the sub-screen transmittance to 50%  D  Setting the	SL2S03	Setting the SEAMLESS SW SELECT 2 to INPUT3					
MIRSO0 Turning the mirror mode OFF (normal display)  MIRSO1 Reversing the right and left at mirror mode  MIRSO2 Reversing the right and left at mirror mode  MIRSO3 Reversing the right left and top-bottom at mirror mode  MIRSO3 Reversing the right/left and top-bottom at mirror mode  MILTI SCREEN  MULTI SCREEN  MULTI SCREEN  MULTI SCREEN  PTRSO0 Setting the sub-screen transmittance to OFF (0%)  PTRSO1 Setting the sub-screen transmittance to 10%  PTRSO2 Setting the sub-screen transmittance to 20%  PTRSO3 Setting the sub-screen transmittance to 30%  PTRSO4 Setting the sub-screen transmittance to 30%  PTRSO5 Setting the sub-screen transmittance to 40%  PTRSO5 Setting the sub-screen transmittance to 50%  PTRSO6 Setting the sub-screen transmittance to 60%  PTRSO6 Setting the sub-screen transmittance to 70%  PTRSO8 Setting the sub-screen transmittance to 70%  PTRSO8 Setting the sub-screen transmittance to 80%  BPISO1 Setting the sub-screen transmittance to 80%  BPISO2 Setting the sub-screen transmittance to 80%  BPISO3 Setting the BANNER PIPP ID TO INPUT1  O Setting the BANNER PIPP ID OFF  BPPSO0 Setting the BANNER PIPP ID OFF  BPPSO1 Setting the BANNER PIPP ID OFF  BPPSO1 Setting the BANNER PIPP ID OFF  O Setting the BANNER PIPP TO OFO  BPPSO3 Setting the BANNER PIPP TO DOFO  BPPSO3 Setting the BANNER PIPP TO DOFO  BPPSO4 Setting the BANNER PIPP TO DOFO  BPPSO5 Setting the BANNER PIPP TO DOTOM  BPPSO6 Setting the BANNER PIPP TO DOTOM  D SETTING THE SETTIN	SL2S04	Setting the SEAMLESS SW SELECT 2 to INPUT4				-	
MIRS00	SL2S05	Setting the SEAMLESS SW SELECT 2 to INPUT5				0	
MIRS01 Reversing the right and left at mirror mode  MIRS02 Reversing the top and bottom at mirror mode  MIRS03 Reversing the top and bottom at mirror mode  O  MIRS03 Reversing the right/left and top/bottom at mirror mode  O  MULTI SCREEN  PTRS00 Setting the sub-screen transmittance to OFF (0%)  PTRS01 Setting the sub-screen transmittance to 10%  PTRS02 Setting the sub-screen transmittance to 20%  PTRS03 Setting the sub-screen transmittance to 20%  PTRS04 Setting the sub-screen transmittance to 30%  PTRS05 Setting the sub-screen transmittance to 50%  PTRS06 Setting the sub-screen transmittance to 50%  PTRS07 Setting the sub-screen transmittance to 50%  PTRS08 Setting the sub-screen transmittance to 60%  PTRS07 Setting the sub-screen transmittance to 60%  PTRS08 Setting the sub-screen transmittance to 60%  PTRS09 Setting the sub-screen transmittance to 60%  PTRS09 Setting the sub-screen transmittance to 70%  PTRS08 Setting the sub-screen transmittance to 80%  BPIS01 Setting the BANNER PinP inplu to INPUT1  BPIS02 Setting the BANNER PinP inplu to INPUT2  BPPS00 Setting the BANNER PinP to OFF  BPPS01 Setting the BANNER PinP to OFF  O BPPS02 Setting the BANNER PinP to TOP3  BPPS03 Setting the BANNER PinP to BOTTOM3  BPPS04 Setting the BANNER PinP to BOTTOM3  BPPS05 Setting the BANNER PinP to BOTTOM3  BPPS06 Setting the BANNER PinP to DOTTOM2  BPPS07 Setting the BANNER PinP to DOTTOM4  BPPS08 Setting the BANNER PinP to DOTTOM4  BPPS09 Setting the BANNER PinP to BOTTOM4  BPPS09 Setting the BANNER PinP to DOTTOM4  BPPS09 Setting the BANNER PinP to DOTTOM4  BPPS09 Setting the BANNER PinP to DOTTOM4  BPPS09 Setting the BANNER PinP to BOTTOM4  BPPS09 Setting the BANNER PinP to DOTTOM4  BPPS09 Setting the BANNER PinP to BOTTOM4  BPPS00 PIP fade-in (no), at PIP fade-in o	MIRROR						
MIRS02 Reversing the top and bottom at mirror mode  MIRS03 Reversing the right/left and top/bottom at mirror mode  O  MILTI SCREEN  WILTI SCREEN  PTRS00 Setting the sub-screen transmittance to OFF (0%)  PTRS01 Setting the sub-screen transmittance to 10%  PTRS02 Setting the sub-screen transmittance to 20%  PTRS03 Setting the sub-screen transmittance to 20%  PTRS04 Setting the sub-screen transmittance to 30%  PTRS05 Setting the sub-screen transmittance to 40%  PTRS05 Setting the sub-screen transmittance to 50%  PTRS06 Setting the sub-screen transmittance to 50%  PTRS07 Setting the sub-screen transmittance to 50%  PTRS08 Setting the sub-screen transmittance to 50%  PTRS08 Setting the sub-screen transmittance to 50%  PTRS09 Setting the sub-screen transmittance to 50%  BPIS01 Setting the BANNER PIP Input to INPUT1  D BPIS02 Setting the BANNER PIP Input to INPUT2  BPPS00 Setting the BANNER PIP Input to INPUT2  BPPS01 Setting the BANNER PIP Input to INPUT3  BPPS02 Setting the BANNER PIP Input to INPUT3  BPPS03 Setting the BANNER PIP Input to INPUT3  BPPS04 Setting the BANNER PIP Input to INPUT4  BPPS05 Setting the BANNER PIP Input to INPUT4  BPPS06 Setting the BANNER PIP Input TOP3  D BPPS07 Setting the BANNER PIP Input BOTTOM3  BPPS08 Setting the BANNER PIP Input BOTTOM4  BPPS09 Setting the BANNER PIP Input BOTTOM4  BPPS09 Setting the BANNER PIP Input BOTTOM1  BPPS00 PIP fade-in function on  PFAS10 PIP fade-in function on  PFAS11 PIP fade-in function on  PFAS11 PIP fade-in function on  PFAS11 PIP fade-in fonn)	MIRS00	Turning the mirror mode OFF (normal display)				0	
MIRS03 Reversing the right/left and top/bottom at mirror mode  PTRS00 Setting the sub-screen transmittance to OFF (0%)  PTRS01 Setting the sub-screen transmittance to 10%  PTRS02 Setting the sub-screen transmittance to 20%  PTRS03 Setting the sub-screen transmittance to 20%  PTRS04 Setting the sub-screen transmittance to 30%  PTRS05 Setting the sub-screen transmittance to 30%  PTRS06 Setting the sub-screen transmittance to 50%  PTRS06 Setting the sub-screen transmittance to 50%  PTRS07 Setting the sub-screen transmittance to 60%  PTRS08 Setting the sub-screen transmittance to 60%  PTRS09 Setting the sub-screen transmittance to 60%  PTRS09 Setting the sub-screen transmittance to 70%  O DESTREAM  PTRS09 Setting the sub-screen transmittance to 80%  PTRS09 Setting the sub-screen transmittance to 80%  PTRS09 Setting the sub-screen transmittance to 80%  PTRS09 Setting the BahNER PIPP input to INPUT1  O DESTREAM  BPIS01 Setting the BahNER PIPP input to INPUT2  BPPS00 Setting the BANNER PIPP input to INPUT2  BPPS01 Setting the BANNER PIPP to OFF  O DESTREAM  BPPS02 Setting the BANNER PIPP to TOP3  BPPS03 Setting the BANNER PIPP to TOP3  BPPS04 Setting the BANNER PIPP to TOP3  BPPS05 Setting the BANNER PIPP to BOTTOM3  O DESTREAM  BPPS06 Setting the BANNER PIPP to BOTTOM3  D D SETTING BANNER PIPP to BOTTOM2  BPPS07 Setting the BANNER PIPP to BOTTOM2  BPPS08 Setting the BANNER PIPP to TOP2  BPPS09 Setting the BANNER PIPP to TOP1  BPPS09 Setting the BANNER PIPP to BOTTOM1  BPPS09 Setting the BANNER PIPP to TOP1  BPPS09 Setting the BANNER PIPP to TOP1  BPPS09 Setting the BANNER PIPP to BOTTOM1  BPPS09 Setting the BANNER PIPP to TOP1  BPPS00 Setting the BANNER PIPP to TOP1  BPPS01 Setting the BANNER PIPP to TOP1  BPPS09 Setting the BANNER PIPP to TOP1  BPPS01 PIP fade-in function on  PPAS01 PIP fade-in function on  PPAS01 PIP fade-in function on  PPAS01 PIP fade-in function on	MIRS01	Reversing the right and left at mirror mode				0	
MULTI SCREEN   PTRS00   Setting the sub-screen transmittance to OFF (%)   O	MIRS02	Reversing the top and bottom at mirror mode				0	
MULTI SCREEN   PTRS00   Setting the sub-screen transmittance to OFF (0%)   O	MIRS03	Reversing the right/left and top/bottom at mirror mode				0	
PTRS01   Setting the sub-screen transmittance to 10%   O	MULTI SCREEN		'				
PTRS01         Setting the sub-screen transmittance to 10%         O           PTRS02         Setting the sub-screen transmittance to 20%         O           PTRS03         Setting the sub-screen transmittance to 30%         O           PTRS04         Setting the sub-screen transmittance to 40%         O           PTRS05         Setting the sub-screen transmittance to 50%         O           PTRS06         Setting the sub-screen transmittance to 60%         O           PTRS07         Setting the sub-screen transmittance to 70%         O           PTRS08         Setting the sub-screen transmittance to 80%         O           PTRS07         Setting the sub-screen transmittance to 80%         O           PTRS08         Setting the sub-screen transmittance to 80%         O           PTRS07         Setting the sub-screen transmittance to 80%         O           PTRS08         Setting the sub-screen transmittance to 80%         O           PTRS09         Setting the sub-screen transmittance to 80%         O           PTRS09         Setting the BANER PinP to INPUT1         O           BPIS01         Setting the BANNER PinP to INPUT2         O           BPPS02         Setting the BANNER PinP to OFP         O           BPPS03         Setting the BANNER PinP to MID-LOW         O </td <td>PTRS00</td> <td>Setting the sub-screen transmittance to OFF (0%)</td> <td></td> <td></td> <td></td> <td>0</td> <td></td>	PTRS00	Setting the sub-screen transmittance to OFF (0%)				0	
PTRS02         Setting the sub-screen transmittance to 20%         O           PTRS03         Setting the sub-screen transmittance to 30%         O           PTRS04         Setting the sub-screen transmittance to 40%         O           PTRS05         Setting the sub-screen transmittance to 60%         O           PTRS06         Setting the sub-screen transmittance to 60%         O           PTRS07         Setting the sub-screen transmittance to 70%         O           PTRS08         Setting the sub-screen transmittance to 80%         O           PTRS08         Setting the sub-screen transmittance to 80%         O           PTRS08         Setting the sub-screen transmittance to 80%         O           BPIS01         Setting the BANNER PrinP input to INPUT1         O           BPIS02         Setting the BANNER PrinP input to INPUT2         O           BPPS00         Setting the BANNER PrinP to OFF         O           BPPS01         Setting the BANNER PrinP to TOP3         O           BPPS02         Setting the BANNER PrinP to MID-HIGH         O           BPPS03         Setting the BANNER PrinP to MID-LOW         O           BPPS04         Setting the BANNER PrinP to BOTTOM3         O           BPPS05         Setting the BANNER PrinP to TOP2         O						0	
PTRS03         Setting the sub-screen transmittance to 30%         O           PTRS04         Setting the sub-screen transmittance to 40%         O           PTRS05         Setting the sub-screen transmittance to 50%         O           PTRS06         Setting the sub-screen transmittance to 60%         O           PTRS07         Setting the sub-screen transmittance to 70%         O           PTRS08         Setting the sub-screen transmittance to 80%         O           BPIS01         Setting the BANNER PinP input to INPUT1         O           BPIS02         Setting the BANNER PinP input to INPUT2         O           BPPS00         Setting the BANNER PinP to OFF         O           BPPS01         Setting the BANNER PinP to TOP3         O           BPPS02         Setting the BANNER PinP to MID-HIGH         O           BPPS03         Setting the BANNER PinP to MID-LOW         O           BPPS04         Setting the BANNER PinP to BOTTOM3         O           BPPS05         Setting the BANNER PinP to TOP2         O           BPPS06         Setting the BANNER PinP to TOP1         O           BPPS07         Setting the BANNER PinP to BOTTOM1         O           BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting t							
PTRS04         Setting the sub-screen transmittance to 40%         O           PTRS05         Setting the sub-screen transmittance to 50%         O           PTRS06         Setting the sub-screen transmittance to 60%         O           PTRS07         Setting the sub-screen transmittance to 70%         O           PTRS08         Setting the sub-screen transmittance to 80%         O           BPIS01         Setting the BANNER PinP input to INPUT1         O           BPIS02         Setting the BANNER PinP input to INPUT2         O           BPPS00         Setting the BANNER PinP to OFF         O           BPPS01         Setting the BANNER PinP to TOP3         O           BPPS02         Setting the BANNER PinP to MID-LOW         O           BPPS03         Setting the BANNER PinP to MID-LOW         O           BPPS04         Setting the BANNER PinP to BOTTOM3         O           BPPS05         Setting the BANNER PinP to TOP2         O           BPPS06         Setting the BANNER PinP to BOTTOM2         O           BPPS07         Setting the BANNER PinP to BOTTOM1         O           BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting the BANNER PinP to BOTTOM1         O           BPPS00         Setting the BANN						_	
PTRS05 Setting the sub-screen transmittance to 50% PTRS06 Setting the sub-screen transmittance to 60% PTRS07 Setting the sub-screen transmittance to 70% PTRS08 Setting the sub-screen transmittance to 70% PTRS08 Setting the sub-screen transmittance to 80% BPIS01 Setting the BANNER PinP input to INPUT1 O BPIS02 Setting the BANNER PinP input to INPUT2 O BPPS00 Setting the BANNER PinP to OFF O BPPS01 Setting the BANNER PinP to TOP3 BPPS02 Setting the BANNER PinP to MID-HIGH O BPPS03 Setting the BANNER PinP to MID-HOW O BPPS04 Setting the BANNER PinP to MID-LOW O BPPS05 Setting the BANNER PinP to TOP2 O BPPS06 Setting the BANNER PinP to TOP2 O BPPS07 Setting the BANNER PinP to BOTTOM2 O BPPS08 Setting the BANNER PinP to TOP1 O BPPS09 Setting the BANNER PinP to TOP1 O BPPS09 Setting the BANNER PinP to BOTTOM1 O BPPS09 Setting the BANNER PinP to BOTTOM1 O BPPS01 Setting the BANNER PinP to BOTTOM1 O BPPS03 Setting the BANNER PinP to TOP1 O BPPS04 Setting the BANNER PinP to TOP1 O BPPS05 Setting the BANNER PinP to TOP1 O BPPS06 Setting the BANNER PinP to TOP1 O BPPS07 Setting the BANNER PinP to BOTTOM1 O BPPS08 Setting the BANNER PinP to BOTTOM1 O BPPS09 Setting the BANNER PinP to BOTTOM1 O BPPS01 Setting the BANNER PinP to BIGHT O PFAS01 PiP fade-in function on PFAS01 PiP fade-in function on PFAS11 PiP fade-in (only at PiP fade-in on)		1 . · ·					
PTRS06 Setting the sub-screen transmittance to 60%  PTRS07 Setting the sub-screen transmittance to 70%  PTRS08 Setting the sub-screen transmittance to 70%  PTRS08 Setting the sub-screen transmittance to 80%  BPIS01 Setting the BANNER PinP input to INPUT1  BPIS02 Setting the BANNER PinP input to INPUT2  BPPS00 Setting the BANNER PinP to OFF  BPPS01 Setting the BANNER PinP to TOP3  BPPS02 Setting the BANNER PinP to MID-HIGH  BPPS03 Setting the BANNER PinP to MID-LOW  BPPS04 Setting the BANNER PinP to BOTTOM3  BPPS05 Setting the BANNER PinP to DOP2  BPPS06 Setting the BANNER PinP to TOP2  BPPS07 Setting the BANNER PinP to TOP2  BPPS08 Setting the BANNER PinP to TOP1  BPPS09 Setting the BANNER PinP to TOP1  BPPS09 Setting the BANNER PinP to BOTTOM1  BPPS00 PIP fade-in function on  PFAS01 PIP fade-in function on  PFAS11 PIP fade-in (only at PIP fade-in on)							
PTRS07         Setting the sub-screen transmittance to 70%         O           PTRS08         Setting the sub-screen transmittance to 80%         O           BPIS01         Setting the BANNER PinP input to INPUT1         O           BPIS02         Setting the BANNER PinP input to INPUT2         O           BPPS00         Setting the BANNER PinP to OFF         O           BPPS01         Setting the BANNER PinP to TOP3         O           BPPS02         Setting the BANNER PinP to MID-HIGH         O           BPPS03         Setting the BANNER PinP to MID-LOW         O           BPPS04         Setting the BANNER PinP to BOTTOM3         O           BPPS05         Setting the BANNER PinP to TOP2         O           BPPS06         Setting the BANNER PinP to BOTTOM2         O           BPPS07         Setting the BANNER PinP to BOTTOM1         O           BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting the BANNER PinP to RIGHT         O           BPPS01         Setting the BANNER PinP to RIGHT         O           BPPS02         Setting the BANNER PinP to RIGHT         O           BPPS03         Setting the BANNER PinP to RIGHT         O           BPPS09         Setting the BANNER PinP to RIGHT							
PTRS08         Setting the sub-screen transmittance to 80%         O           BPIS01         Setting the BANNER PinP input to INPUT1         O           BPIS02         Setting the BANNER PinP input to INPUT2         O           BPPS00         Setting the BANNER PinP to OFF         O           BPPS01         Setting the BANNER PinP to TOP3         O           BPPS02         Setting the BANNER PinP to MID-HIGH         O           BPPS03         Setting the BANNER PinP to MID-LOW         O           BPPS04         Setting the BANNER PinP to BOTTOM3         O           BPPS05         Setting the BANNER PinP to TOP2         O           BPPS06         Setting the BANNER PinP to BOTTOM2         O           BPPS07         Setting the BANNER PinP to TOP1         O           BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting the BANNER PinP to BIGHT         O           BPPS01         Setting the BANNER PinP to RIGHT         O           BPPS02         Setting the BANNER PinP to RIGHT         O           BPPS09         Setting the BANNER PinP to RIGHT         O           BPPS01         Setting the BANNER PinP to RIGHT         O           BPPS02         PIP fade-in function on         O <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
BPIS01   Setting the BANNER PinP input to INPUT1   O		Setting the sub-screen transmittance to 70%					
BPIS02         Setting the BANNER PinP input to INPUT2         O           BPPS00         Setting the BANNER PinP to OFF         O           BPPS01         Setting the BANNER PinP to TOP3         O           BPPS02         Setting the BANNER PinP to MID-HIGH         O           BPPS03         Setting the BANNER PinP to MID-LOW         O           BPPS04         Setting the BANNER PinP to BOTTOM3         O           BPPS05         Setting the BANNER PinP to TOP2         O           BPPS06         Setting the BANNER PinP to BOTTOM2         O           BPPS07         Setting the BANNER PinP to TOP1         O           BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting the BANNER PinP to BOTTOM1         O           BPPS10         Setting the BANNER PinP to RIGHT         O           PFAS00         PIP fade-in function off         O           PFAS11         PIP fade-in (only at PIP fade-in on)         O           PFAS11         PIP fade-in (only at PIP fade-in on)         O	PTRS08	Setting the sub-screen transmittance to 80%					
BPPS00         Setting the BANNER PinP to OFF         O           BPPS01         Setting the BANNER PinP to TOP3         O           BPPS02         Setting the BANNER PinP to MID-HIGH         O           BPPS03         Setting the BANNER PinP to MID-LOW         O           BPPS04         Setting the BANNER PinP to BOTTOM3         O           BPPS05         Setting the BANNER PinP to TOP2         O           BPPS06         Setting the BANNER PinP to BOTTOM2         O           BPPS07         Setting the BANNER PinP to TOP1         O           BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting the BANNER PinP to LEFT         O           BPPS10         Setting the BANNER PinP to RIGHT         O           PFAS00         PIP fade-in function off         O           PFAS11         PIP fade-in (only at PIP fade-in on)         O	BPIS01	Setting the BANNER PinP input to INPUT1					
BPPS01         Setting the BANNER PinP to TOP3         O           BPPS02         Setting the BANNER PinP to MID-HIGH         O           BPPS03         Setting the BANNER PinP to MID-LOW         O           BPPS04         Setting the BANNER PinP to BOTTOM3         O           BPPS05         Setting the BANNER PinP to TOP2         O           BPPS06         Setting the BANNER PinP to BOTTOM2         O           BPPS07         Setting the BANNER PinP to TOP1         O           BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting the BANNER PinP to LEFT         O           BPPS10         Setting the BANNER PinP to RIGHT         O           PFAS00         PIP fade-in function off         O           PFAS01         PIP fade-in function on         O           PFAS10         PIP fade-in (only at PIP fade-in on)         O           PFAS11         PIP fade-in (only at PIP fade-in on)         O	BPIS02	Setting the BANNER PinP input to INPUT2					
BPPS02         Setting the BANNER PinP to MID-HIGH         O           BPPS03         Setting the BANNER PinP to MID-LOW         O           BPPS04         Setting the BANNER PinP to BOTTOM3         O           BPPS05         Setting the BANNER PinP to TOP2         O           BPPS06         Setting the BANNER PinP to BOTTOM2         O           BPPS07         Setting the BANNER PinP to TOP1         O           BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting the BANNER PinP to LEFT         O           BPPS10         Setting the BANNER PinP to RIGHT         O           PFAS00         PIP fade-in function off         O           PFAS01         PIP fade-in function on         O           PFAS10         PIP fade-in (only at PIP fade-in on)         O           PFAS11         PIP fade-in (only at PIP fade-in on)         O	BPPS00	Setting the BANNER PinP to OFF				0	
BPPS03         Setting the BANNER PinP to MID-LOW         O           BPPS04         Setting the BANNER PinP to BOTTOM3         O           BPPS05         Setting the BANNER PinP to TOP2         O           BPPS06         Setting the BANNER PinP to BOTTOM2         O           BPPS07         Setting the BANNER PinP to TOP1         O           BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting the BANNER PinP to LEFT         O           BPPS10         Setting the BANNER PinP to RIGHT         O           PFAS00         PIP fade-in function off         O           PFAS01         PIP fade-in function on         O           PFAS10         PIP fade-in (only at PIP fade-in on)         O           PFAS11         PIP fade-in (only at PIP fade-in on)         O	BPPS01	Setting the BANNER PinP to TOP3				0	
BPPS04         Setting the BANNER PinP to BOTTOM3         O           BPPS05         Setting the BANNER PinP to TOP2         O           BPPS06         Setting the BANNER PinP to BOTTOM2         O           BPPS07         Setting the BANNER PinP to TOP1         O           BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting the BANNER PinP to LEFT         O           BPPS10         Setting the BANNER PinP to RIGHT         O           PFAS00         PIP fade-in function off         O           PFAS01         PIP fade-in function on         O           PFAS10         PIP fade-in (only at PIP fade-in on)         O           PFAS11         PIP fade-in (only at PIP fade-in on)         O	BPPS02	Setting the BANNER PinP to MID-HIGH				0	
BPPS04         Setting the BANNER PinP to BOTTOM3         O           BPPS05         Setting the BANNER PinP to TOP2         O           BPPS06         Setting the BANNER PinP to BOTTOM2         O           BPPS07         Setting the BANNER PinP to TOP1         O           BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting the BANNER PinP to LEFT         O           BPPS10         Setting the BANNER PinP to RIGHT         O           PFAS00         PIP fade-in function off         O           PFAS01         PIP fade-in function on         O           PFAS10         PIP fade-in (only at PIP fade-in on)         O           PFAS11         PIP fade-in (only at PIP fade-in on)         O	BPPS03					0	
BPPS05         Setting the BANNER PinP to TOP2         O           BPPS06         Setting the BANNER PinP to BOTTOM2         O           BPPS07         Setting the BANNER PinP to TOP1         O           BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting the BANNER PinP to LEFT         O           BPPS10         Setting the BANNER PinP to RIGHT         O           PFAS00         PIP fade-in function off         O           PFAS01         PIP fade-in function on         O           PFAS10         PIP fade-in (only at PIP fade-in on)         O           PFAS11         PIP fade-off (only at PIP fade-in on)         O						0	
BPPS06         Setting the BANNER PinP to BOTTOM2         O           BPPS07         Setting the BANNER PinP to TOP1         O           BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting the BANNER PinP to LEFT         O           BPPS10         Setting the BANNER PinP to RIGHT         O           PFAS00         PIP fade-in function off         O           PFAS01         PIP fade-in function on         O           PFAS10         PIP fade-in (only at PIP fade-in on)         O           PFAS11         PIP fade-off (only at PIP fade-in on)         O							
BPPS07         Setting the BANNER PinP to TOP1         O           BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting the BANNER PinP to LEFT         O           BPPS10         Setting the BANNER PinP to RIGHT         O           PFAS00         PIP fade-in function off         O           PFAS01         PIP fade-in function on         O           PFAS10         PIP fade-in (only at PIP fade-in on)         O           PFAS11         PIP fade-off (only at PIP fade-in on)         O		-				-	
BPPS08         Setting the BANNER PinP to BOTTOM1         O           BPPS09         Setting the BANNER PinP to LEFT         O           BPPS10         Setting the BANNER PinP to RIGHT         O           PFAS00         PIP fade-in function off         O           PFAS01         PIP fade-in function on         O           PFAS10         PIP fade-in (only at PIP fade-in on)         O           PFAS11         PIP fade-off (only at PIP fade-in on)         O							
BPPS09         Setting the BANNER PinP to LEFT         O           BPPS10         Setting the BANNER PinP to RIGHT         O           PFAS00         PIP fade-in function off         O           PFAS01         PIP fade-in function on         O           PFAS10         PIP fade-in (only at PIP fade-in on)         O           PFAS11         PIP fade-off (only at PIP fade-in on)         O							
BPPS10         Setting the BANNER PinP to RIGHT         O           PFAS00         PIP fade-in function off         O           PFAS01         PIP fade-in function on         O           PFAS10         PIP fade-in (only at PIP fade-in on)         O           PFAS11         PIP fade-off (only at PIP fade-in on)         O							
PFAS00         PIP fade-in function off         O           PFAS01         PIP fade-in function on         O           PFAS10         PIP fade-in (only at PIP fade-in on)         O           PFAS11         PIP fade-off (only at PIP fade-in on)         O							
PFAS01         PIP fade-in function on         O           PFAS10         PIP fade-in (only at PIP fade-in on)            PFAS11         PIP fade-off (only at PIP fade-in on)						-	
PFAS10         PIP fade-in (only at PIP fade-in on)           PFAS11         PIP fade-off (only at PIP fade-in on)	PFAS00	PIP fade-in function off					
PFAS11 PIP fade-off (only at PIP fade-in on)	PFAS01	PIP fade-in function on				0	
	PFAS10	PIP fade-in (only at PIP fade-in on)					
FUNCTION DEFAULT	PFAS11	PIP fade-off (only at PIP fade-in on)					
UNUTION DEL AUET	FUNCTION DEFAULT		-				

171

В

С

D

Ε

PDP-507CMX

5

2 3 4

#### Other command

Α

В

С

Command	Operation	Nui	neric Direct	input	Last	Remarks
Command	Operation	Validity	Minimum	Minimum	Memory	nemarks
DISPLAY CALL						
DITS01	Indication to DISPLAYCALL1					
DITS02	Indication to DISPLAYCALL2					
IM0	Wrinting the INFORMATION (1 to 3 character)				0	
IM1	Wrinting the INFORMATION (4 to 6 character)				0	
IM2	Wrinting the INFORMATION (7 to 9 character)				0	
IM3	Wrinting the INFORMATION (10 to 12 character)				0	
IM4	Wrinting the INFORMATION (13 to 15 character)				0	
IM5	Wrinting the INFORMATION (16 to 18 character)				0	
IM6	Wrinting the INFORMATION (19 to 21 character)				0	
IMD	Clearing the INFORMATION				0	
AUXILIARY COMMAND						
DW0	Decreasing the adjustment value by 10					
DWF	Minimizing the adjustment value					
DWn	Decreasing the adjustment value by n (n=1 to 9)					
UP0	Increasing the adjustment value by 10					
UPF	Maximizing the adjustment value					
UPn	Increasing the adjustment value by n (n =1 to 9)					
QST	Acruiring the status					
QPI	Acruiring data on integrator/PICTURE					
QWB	Acruiring data on integrator WHITE BAL					
QPS	Acruiring data on integrator SCREEN					
QSS	Acruiring data on SETUP					
QSO	Acruiring data onnew integrator OPTION					
QAP	Acruiring the model name					
QCI	Acruiring data on the time					
QSU	Acruiring data on the audio status					
OTHER					•	•
MRKS00	Turn the mark indication to off.					
MRKS01	Turn the mark indication to on.					
RMCS10	Remote control key CURSOR RIGHT					
RMCS11	Remote control key CURSOR LEFT					
RMCS12	Remote control key CURSOR UP					
RMCS13	Remote control key CURSOR DOWN					
RMCS14	Remote control key SET					
RMCS25	Remote control key MENU					
RMCS26	Remote control key POINT ZOOM					
RMCS27	Remote control key ID NO SET					
RMCS28	Remote control key CLEAR					
RMCS29	Remote control key FREEZE					
RMCS30	Remote control key STANDBY/ON					
RMCS31	Remote control key VOLUME UP					
RMCS32	Remote control key VOLUME DOWN					
RMCS33	Remote control key MUTING					
RMCS34	Remote control key SCREEN SIZE					
RMCS35	Remote control key SPLIT					
RMCS36	Remote control key SUB INPUT					
RMCS37	Remote control key PIP SHIFT					

172

Е

PDP-507CMX

1 2 3 4

### Factory related command

5

		Command I	Effectiveness	Nur	meric Direct i	nput	
Command	Operation	Factory	Normal Operation	Validity	Minimum	Maximum	Remarks
Operation m	node selection						
FAN	Turning the factory mode OFF	0	-	-	-	-	
FAY	Turning the factory mode ON	-	0	-	-	-	
FALS00	Turning the factory mode lock OFF	0	-	-	-	-	
FALS01	Turning the factory mode ON	0	-	-	-	-	
Power supp	ly control of drive system						
DRVS00	Turning the power of drive system OFF	0	0	-	-	-	
DRVS01	Turning the power of drive system ON	0	0	-	-	-	
Various adju	ustment of the main side				•		
MAJS00	Starting the W/B and LPF auto adjustment of the MAIN Assy	0	-	-	-	-	
MAJS01	Forcibly finishing the W/B and LPF auto adjustment of the MAIN Assy	0	-	-	-	-	
ADC***	Adjusting the AD contrast	0	-	0	000	255	
MRG***	Adjusting the R GAIN of AD MAIN	0	-	0	000	255	
MRO***	Adjusting the R OFFSET of AD MAIN	0	-	0	000	255	
MGG***	Adjusting the G GAIN of AD MAIN	0	-	0	000	255	
MGO***	Adjusting the G OFFSET of AD MAIN	0	-	0	000	255	
MBG***	Adjusting the B GAIN of AD MAIN	0	-	0	000	255	
MBO***	Adjusting the B OFFSET of AD MAIN	0	-	0	000	255	
SRG***	Adjusting the R GAIN of AD SUB	0	-	0	000	255	
SRO***	Adjusting the R OFFSET of AD SUB	0	-	0	000	255	
SGG***	Adjusting the G GAIN of AD SUB	0	-	0	000	255	
SGO***	Adjusting the G OFFSET of AD SUB	0	-	0	000	255	
SBG***	Adjusting the B GAIN of AD SUB	0	-	0	000	255	
SBO***	Adjusting the B OFFSET of AD SUB	0	-	0	000	255	
Various con	trol of the main side		1				
FCNS00	Setting the fan roll control to stop	0	_	-	-	-	
FCNS01	Setting the fan roll control to maximum	0	-	-	-	-	
FCNS02	Setting the fan roll control to middle	0	-	-	-	-	
FCNS03	Setting the fan roll control to weak	0	-	-	-	-	
FCNS04	Setting the fan roll control to auto	0	-	-	-	-	
FCNS99	Setting the fan roll control to TEST	0	-	-	-	-	
FOF	Requesting the fan abnormality detection	0	-	-	-	-	ACK→ S01 : Normal S02 : Abnormal
LEDS00	Turning off the all front indicators	0	_	-	-	-	
LEDS02	Setting the front indicators to normal operation	0	-	-	-	-	
LEDS10	Front indicators: ON (green)	0	_	_	-	-	
LEDS11	Front indicators: STANDBY (red)	0	_	-	-	-	
EDWS00	Prohibiting writing of EDID data	0	_	_	-	-	
EDWS01	Permitting writing of EDID data	0	_	_	-	-	
EPAS00	Prohibiting EEPROM access from the outside	0	_	_	-	-	
EPAS01	Permitting EEPROM access from the outside	0	_		_	_	

6

7

8

В

С

D

Ε

173

8

F

PDP-507CMX

\_

5

ь

1 2 3 4

		Command E	Effectiveness	Nur	neric Direct i	nput	
Command	Operation	Factory	Normal Operation	Validity	Minimum	Maximum	Remarks
Various adju	stment of the panel side						
ABL***	Adjusting the power upper limit value (ABL)	0	-	0	000	255	
PRH***	Adjusting the R HIGH of panel W/B	0	-	0	000	511	
PGH***	Adjusting the G HIGH of panel W/B	0	-	0	000	511	
PBH***	Adjusting the B HIGH of panel W/B	0	-	0	000	511	
PRL***	Adjusting the R LOW of panel W/B	0	-	0	000	999	
PGL***	Adjusting the G LOW of panel W/B	0	-	0	000	999	
PBL***	Adjusting the B LOW of panel W/B	0	-	0	000	999	
VOF***	Adjusting the offset voltage	0	-	0	000	255	
VRP***	Adjusting the P-RST voltage	0	-	0	000	255	
VSU***	Adjusting the sus voltage	0	-	0	000	255	
RSW***	Adjusting the XY-RST width 1	0	-	0	120	136	
RYW***	Adjusting the XY-RST width 2	0	-	0	120	136	
XSB***	Adjusting the X-SUS B timing	0	-	0	120	136	
YSB***	Adjusting the Y-SUS B timing	0	-	0	120	136	
YTG***	Adjusting the Y-SUS TAIL timing	0	-	0	120	136	
YTW***	Adjusting the Y-SUS TAIL width	0	-	0	120	136	
Various con	trol of the panel side					1.	
PGMS**	Set up the panel gamma table	0	0	-	-	-	
PKLS00	Setting the brightness to 0	0	0	-	-	-	
PKLS01	Setting the brightness to 1	0	0	-	-	-	
PKLS02	Setting the brightness to 2	0	0	-	-	-	
PKLS03	Setting the brightness to 3	0	0	-	-	-	
PKLS04	Setting the brightness to 4	0	0	-	-	-	
PKLS05	Setting the brightness to 5	0	0	-	-	-	
PKLS06	Setting the brightness to 6	0	0	-	-	-	
PKLS07	Setting the brightness to 7	0	0	-	-	-	
PWAS00	Setting the power consumption to normal	0	0	-	-	-	507CMX : 4L, 607CMX : 2L
PWAS01	Setting the power consumption to energy-saving	0	0	-	-	-	507CMX : 4L, 607CMX : 2L
PWAS10	Setting the power consumption to normal (2L)	0	0	_	_	_	007 01137 12, 007 01137 122
PWAS11	Setting the power consumption to energy-saving (2L)	0	0	_	_	_	
SMMS**	Setting the side mask to full screen	0	0	_	_	_	
SQMS00	Setting the drive sequence mode to sequence at no signal input	0	0		_	-	
SQMS01	Setting the drive sequence mode to sequence for VIDEO (animation)	0	0		_	-	
SQMS02	Setting the drive sequence mode to sequence for PC (still picture)	0	0		_	_	
SQMS03	Setting the drive sequence mode to 48Hz/72Hz sequence	0	0		_	_	
WBIS00	Turning the default output of panel W/B off	0	-		_	_	
WBIS01	Turning the default output of panel W/B on	0	_		_	_	
APWS00	Prohibiting WB-APL interlocking	0				_	
APWS01	Permitting WB-APL interlocking	0	_		_	_	
			_		_	_	
Mask indicat	Setting the frequency in mask mode to VIDEO-48Hz	0	_		-	-	
VFQS01 VFQS02	Setting the frequency in mask mode to VIDEO-46HZ	0	-	-	-	-	
VFQS02 VFQS03							
	Setting the frequency in mask mode to VIDEO-60Hz	0	-	-	-	-	
VFQS05	Setting the frequency in mask mode to VIDEO-72Hz	0	-	-	-	-	
VFQS06	Setting the frequency in mask mode to VIDEO-75Hz	0	-	-	-	-	
VFQS13	Setting the frequency in mask mode to PC-60Hz	0	-	-	-	-	
VFQS14	Setting the frequency in mask mode to PC-70Hz	0	-	-	-	-	

F

Α

В

С

D

Е

	Operation	Command Effectiveness		Nur	Numeric Direct input		
Command		Factory	Normal Operation	Validity	Minimum	Maximum	Remarks
VFQS22	Setting the frequency in mask mode to VIDEO-50Hz NONSTD	0	-	-	-	-	
VFQS23	Setting the frequency in mask mode to VIDEO-60Hz NONSTD	0	-	-	-	-	
VFQS25	Setting the frequency in mask mode to VIDEO-72Hz NONSTD	0	-	-	-	-	
VFQS26	Setting the frequency in mask mode to VIDEO-75Hz NONSTD	0	-	-	-	-	
MKCS00	Turning the mask off	0	0	-	-	-	
MKCS01	Combination mask COMB01: set to H RAMP (lean 1) M	0	-	-	-	-	
MKCS02	Combination mask COMB02: set to H RAMP (lean 4) M	0	-	-	-	-	
MKCS03	Combination mask COMB03: set to slant RAMP M	0	-	-	-	-	
MKCS04	Combination mask COMB04: set to 30 for aging	0	-	-	-	-	
MKCS05	Combination mask COMB05: set to 05 for aging	0	-	-	-	-	
MKCS06	Combination mask COMB06: set to residual image erase 1	0	-	-	-	-	
MKCS07	Combination mask COMB07: set to residual image erase 2	0	-	-	-	-	
MKCS08	Combination mask COMB08: set to white (luminance change)	0	-	-	-	-	
MKCS09	Combination mask COMB09: set to PEAK detection raster	0	-	-	-	-	
MKSS00	Turning the mask off	0	0	-	-	-	
MKSS01	Pattern mask PATTERN01: set to H RAMP (lean 1)	0	-	-	-	-	
MKSS02	Pattern mask PATTERN02: set to H RAMP (lean 4)	0	-	-	-	-	
MKSS03	Pattern mask PATTERN03: set to V RAMP (lean 1)	0	-	-	-	-	
MKSS04	Pattern mask PATTERN04: set to slant RAMP	0	-	-	-	-	
MKSS05	Pattern mask PATTERN05: Window (Hi=870, Lo=102)	0	-	-	-	-	
MKSS06	Pattern mask PATTERN06: Window (Hi=1023, Lo=102)	0	-	-	-	-	
MKSS07	Pattern mask PATTERN07: Window (Hi=1023)	0	-	-	-	-	
MKSS08	Pattern mask PATTERN08: Window (Hi=1023) 4%	0	-	-	-	-	
MKSS09	Pattern mask PATTERN09: Window (Hi=1023) 1.25%	0	-	-	-	-	
MKSS10	Pattern mask PATTERN10: Window (1/7 LINE)	0	-	-	-	-	
MKSS11	Pattern mask PATTERN11: STRIPE (MGT/GRN)	0	-	-	-	-	
MKSS12	Pattern mask PATTERN12: STRIPE (GRN/MGT)	0	-	-	-	-	
MKSS13	Pattern mask PATTERN13: Black and white checks (1 LINE)	0	_	_	_	_	

7

В

С

D

Ε

F

175

6

MKSS13 Pattern mask PATTERN13: Black and white checks (1 LINE) MKSS14 Pattern mask PATTERN14: Black and white checks (2 LINE) 0 MKSS15 Pattern mask PATTERN15: Black and white checks (4 LINE) 0 Pattern mask PATTERN16: Black and white checks (8 LINE) MKSS16 0 MKSS17 Pattern mask PATTERN17: COLOR BAR 0 MKSS18 Pattern mask PATTERN18: Slanted lines 0 MKSS19 Pattern mask PATTERN19: red and black checks (1 LINE) 0 --MKSS20 Pattern mask PATTERN20: red and black checks (2 LINE) 0 ----MKSS21 Pattern mask PATTERN21: red and black checks (4 LINE) 0 --MKSS22 Pattern mask PATTERN22: red and black checks (8 LINE) 0 MKSS23 0 Pattern mask PATTERN23: Residual image erase (RGB cross V inversion) MKSS24 Pattern mask PATTERN24: SUS200 (black raster) 0 MKSS25 0 Pattern mask PATTERN25: Window (Hi=870, Lo=102) 0 MKSS26 Pattern mask PATTERN26: Window (Hi=1023, Lo=102) --0 MKSS27 Pattern mask PATTERN27: Window (Hi=1023) --MKSS28 Pattern mask PATTERN28: Window (Hi=1023) 4% 0 MKSS29 Pattern mask PATTERN29: Window (Hi=1023) 1.25% 0 MKSS30 Pattern mask PATTERN30: Window (1/7 LINE) 0

PDP-507CMX

8

5

1 2 3 4

		Command Effectiveness		Numeric Direct input			
Command	Operation	Factory	Normal Operation	Validity	Minimum	Maximum	Remarks
MKSS54	Raster mask RASTER04: set to blue	0	-	-	-	-	
MKSS55	Raster mask RASTER05: set to black	0	-	-	-	-	
MKSS56	Raster mask RASTER06: set to cyan	0	-	-	-	-	
MKSS57	Raster mask RASTER07: set to magenta	0	-	-	-	-	
MKSS58	Raster mask RASTER08: set to yellow	0	-	-	-	-	
MKSS59	Raster mask RASTER09: set to cyan 460: W	0	-	-	-	-	
MKSS60	Raster mask RASTER10: set to green 774: W	0	-	-	-	-	
MKSS61	Raster mask RASTER11: set to gray 912: W	0	-	-	-	-	
MKSS62	Raster mask RASTER12: set to eggshell color: W	0	-	-	-	-	
MKSS63	Raster mask RASTER13: set to pearl orange(eggshell color): W	0	-	-	-	-	
MKSS64	Raster mask RASTER14: set to sky blue: W	0	-	-	-	-	
MKSS65	Raster mask RASTER15: set to light purple: W	0	-	-	-	-	
MKSS66	Raster mask RASTER16: set to magenta: W	0	-	-	-	-	
MKSS67	Raster mask RASTER17: set to red 640	0	-	-	-	-	
MKSS68	Raster mask RASTER18:set to magenta 98	0	-	-	-	-	
MKSS69	Raster mask RASTER19: set to sky blueX1	0	-	-	-	-	
MKSS70	Raster mask RASTER20: set to sky blueX2	0	-	-	-	-	
MKSS71	Raster mask RASTER21: set to light purple X	0	-	-	-	-	
MKSS72	Raster mask RASTER22: set to blue 960	0	-	-	-	-	
MKSS73	Raster mask RASTER23: set to yellow 512	0	-	-	-	-	
MKSS74	Raster mask RASTER24: set to gray 512	0	-	-	-	-	
AM radio no	ise counterplan						
SFRS01	Setting AM radio noise counterplan to pattern 1	0	-	-	-	-	
SFRS02	Setting AM radio noise counterplan to pattern 2	0	-	-	-	-	
SFRS03	Setting AM radio noise counterplan to pattern 3	0	-	-	-	-	
SFRS04	Setting AM radio noise counterplan to pattern 4	0	-	-	-	-	
SFRS05	Setting AM radio noise counterplan to pattern 5	0	-	-	-	-	
SFRS06	Setting AM radio noise counterplan to pattern 6	0	-	-	-	-	
SFRS07	Setting AM radio noise counterplan to pattern 7	0	-	-	-	-	
SFRS08	Setting AM radio noise counterplan to pattern 8	0	-	-	-	-	
Serial no. se	· · · · · · · · · · · · · · · · · · ·						
SN0***	Setting 1, 2, or 3 for the serial number of the panel	0	-	-	-	-	
SN1***	Setting 4, 5, or 6 for the serial number of the panel	0	_	-	_	_	
SN2***	Setting 7, 8, or 9 for the serial number of the panel	0	_	-	_	_	
SN3***	Setting 10, 11, or 12 for the serial number of the panel	0	_	-	_	_	
SN4***	Setting 13, 14, or 15 for the serial number of the panel	0	-	-	_	_	
SN5***	Setting 1, 2, or 3 for the serial number of the unit	0	-	-	-	-	
SN6***	Setting 4, 5, or 6 for the serial number of the unit	0	-	-	_	_	
SN7***	Setting 7, 8, or 9 for the serial number of the unit	0	-	_	_	_	
SN8***	Setting 10, 11, or 12 for the serial number of the unit	0	_	_	_	_	
SN9***	Setting 13, 14, or 15 for the serial number of the unit	0	_		_	_	
	clear / protection						
CHM	Clearing HOUR METER	0	-		_	-	
CNG	Clearing SHUT DOWN history of the main	0	-			-	
CBU	Setting the backup state of panel to no backup	0	-	-	-	-	Initialize backup ROM
CMT	Clearing the maximum tempera ture	0	-	-	-	-	minualize Dackup NOIVI
CPC	Clearing the POWER ON COUNTER	0	-	<u> </u>		-	
CPD	•	0		<u> </u>	-		
CPD	Clearing the POWER DOWN history	0	-	-	-	-	
	Clearing the PULSE METER		-	-	-		
CSD PFS	Clearing the SHUT DOWN history of the panel	0	-	-	<del>-</del>	-	
	Returning to the factory shipment state that seting data of panel	0	-	-	-	-	
ZPR	Initializing setting data without adjust command of panel	0		-	-	-	
BCP	Returning the backup data to digital Assy		-	-		-	

F

176

Ε

Α

В

С

PDP-507CMX
1 ■ 2 ■ 3 ■ 4

	Operation	Command Effectiveness		Numeric Direct input			
Command		Factory	Normal Operation	Validity	Minimum	Maximum	Remarks
UAJ	Returning the digital ASSY to service parts	0	-	-	-	-	
FAJ	Determining the main unit adjustment on panel	0	-	-	-	-	
SHIS01	Setting the SHIP to A	0	-	-	-	-	
SHIS02	Setting the SHIP to G	0	-	-	-	-	
SHIS03	Setting the SHIP to J	0	-	-	-	-	
SHIS05	Setting the SHIP to GS	0	-	-	-	-	
Various pro	tection						
IJN	Turning the alarm detection off	0	-	-	-	-	Do not perform the main SHUT DOWN detection
IJY	Turning the alarm detection on	0	-	-	-	-	Perform the main SHUT DOWN detection
PPTS00	Turning the panel protection function off	0	-	-	-	-	Turn the still picture protection, panel crack protection and SCAN IC protection off
PPTS01	Turning the panel protection function on	0	-	-	-	-	Turn the still picture protection, panel crack protection and SCAN IC protection on

В

С

D

Ε

F

177

8

PDP-507CMX

\_

#### ■ QUEST Command List

Command Effectiveness **Functional Description** Factory QAP The command QAP is for acquiring data on the model name from the main micro-computer management QST The command QST is for acquiring data on the product status • • QS1 The command QS1 is for acquiring data on the various version information from the main micro-computer and module micro-computer management. QS4 The command QS4 is for acquiring data on the input function, input signal information, screen size and destination information of the main screen. The command QPI is for acquiring data on the integrator/PICTURE information. QPI The command QWB is for acquiring data on the integrator/WHITE BALANCE information. QWB The command QWS is for acquiring data on the integrator/SCREEN information. QPS QSS The command QSS is for acquiring data on the Menu/integrator SETUP information The command QSO is for acquiring data on the Menu/integrator OPTION information. QSO The command QCI is for acquiring data on the time information from the main micro-computer management. QCI The command QSU is for acquiring data on the audio status. QSU The command QSI is for acquiring all data on input video signals. QSI QS2 The command QS2 is for acquiring data on the panel's operational information. QIP The command QIP is for acquiring data on operational information of the panel. The command QAJ is for acquiring the panel's factory-preset data. QAJ QPW The command QPW is for acquiring the factory-preset data about the video of the panel The command QPM is for acquiring the accumulated number of pulses of the panel. QPM The command QPD is for acquiring data from the 8 latest power-down (PD) logs.

The command QNG is for acquiring data on the history data (8 times) of the shut down information. QPD QNG The command QSD is for acquiring the data from the 8 latest shutdown (SD) logs. OSD

#### [QAP] Response format

Order	Data Contents	Length (BYTE)	Value	
1	STX	1	0x02	
2	Echo back	3	"QAP"	
			PDP-507CMX-JP****	50 J (Japan)
			PDP-507CMX******	A (North America)
3	Model name information	18	PDP-50MXE20******	G (European/General included CKD)
			PDP-50MXE20-S****	GS (European/General-Silver)
			PDP-607CMX******	60 A (North America)
			PDP-60MXE20******	G (European/General)
5	Check sum	2	(CS)	
6	ETX	1	0x03	

#### ■ [QST] Response format

Order	Data Contents	Length (BYTE)	Value	
1	STX	1	0x02	
2	Echo back	3	"QST"	
3	Generation information	1	"7"	
4	Size information	1		Refer to following
5	Destination	1	"M"	
6	Power supply state	1		Standby state/Energization state (refer to the following table)
7	At standby: standby factor In electric conduction: Main-screen signal state	1		At standby: standby factor (refer to the following table) In electric conduction: Main-screen signal state (refer to the following table)
8	Sub-screen signal state	1		Sub-screen signal state (refer to the following table)
9	Main input function	3		Input function of Main screen (refer to the following table)
10	Sub input function	3		Input function of Sub screen (refer to the following table)
11	Main screen size infromation	1		Main screen size (refer to the following table)
12	Two-screen display state	1		Two-screen display state (refer to the following table)
13	Functional lock information	1		Functional lock state (refer to the following table)
14	Temperature information 1 (inside)	3		Main unit inside temperature (centigrade) (T2)
15	Temperature information 2 (outside air)	3		Outside air temperature (centigrade) (T3)
16	Temperature information 3 (SLOT)	3		SLOT temperature (centigrade) (T5)
17	Serial number	15		Serial number from the main micro computer
18	Dummy data 1	3		All "0"
19	Dummy data 2	2		All "*"
20	HOUR METER	5		Time data of the Hour Meter controlled by the Main microcomputer If the time data of the Hour Meter are fewer than five digits, the higher-order digits will be padded with zeros.
21	Check sum	2	(CS)	
22	ETX	1	0x03	

#### [QST] Size information

Size information (response)	To acquired data on the MD microcomputer Resolution / size information
"3"	"1"
	"2"
"4"	"3"
	"4"
"5"	"5"
	"6"
"6"	"7"
"*"	Except the above

#### [QST] Power supply state

Power supply state (response)	Power supply state
"S"	Standby state
"P"	Energization state

178

Ε

PDP-507CMX

#### [QST] Standby factor (at standby) / Main-screen signal state (in electric conduction)

At sta	ndby	In electric conduction		
Standby factor (response) Standby factor		Main-screen signal state (response)	Signal state	
"N"	Normal standby	"N"	Normal signal input	
"W"	"W" Power management		No signal input	
"S"	PD or SD	"O"	OUT OF RANGE	

[QST] Sub-screen signal state

5

Sub-screen signal state (response)	Signal state
"*"	Screen display
"N"	Normal signal input
"L"	No signal input
"O"	OUT OF RANGE

#### [QST] Main input function / Sub input function

Input function (response)	Input
"IN1"	INPUT1
"IN2"	INPUT2
"IN3"	INPUT3
"IN4"	INPUT4
"IN5"	INPUT5

\*During Standby mode, the data that were stored upon last update will be sent back.

#### [QST] Main screen size

Main-screen size (response)	Screen size
"0"	DOT BY DOT
"1"	4:3
"2"	FULL
"3"	ZOOM
"5"	WIDE
"6"	14:9
"9"	UNDERSCAN
"A"	2.35:1

#### [QST] Two-screen display state

Two-screen display state (response)	Two-screen display state
"0"	OFF (screen display)
"2"	PinP (Light under)
"3"	PinP (Light top)
"4"	PinP (Left top)
"5"	PinP (Left under)
"1"	SIDE BY SIDE 1
"6"	SIDE BY SIDE 2-L
"9"	SIDE BY SIDE 2-R
"A"	SIDE BY SIDE 3
"B"	SIDE BY SIDE 4-L
"C"	SIDE BY SIDE 4-R

#### [QST] Functional lock information

Functional lock information (response)	Functional lock	
"0"	LOCK OFF	
"1"	BUTTONS LOCK	
"2"	IR LOCK	
"3"	IR & BUTTONS LOCK	
"4"	MEMORY LOCK	

#### [QS1] Response

	-			
Order	Data Contents	Length (BYTE)	Value	
1	STX	1	0x02	
2	Echo back	3	"QS1"	
3	Model name information (refer to following this table)	43		
4	Delimiter	1	","	Comma
5	Dummy data 1	4		All "*"
6	Main microcomputer version information	3		Program version
		1	"M"	M (fixed)
		4		All " " (space)
7	Dummy data 2	40		All "*"
8	Check sum	2	(CS)	
9	FTX	1	0x03	

#### [QS1] Module information

Data contents		Data Length	Data Example
1	Resolution / size	1Byte	F
2	Generation	1Byte	7
3	Destination	1Byte	*
4	Grade	1Byte	*
5	Product form	1Byte	D
6	MDUcom-Boot	3Byte	01A
7	MDUcom-PRG	8Byte	001A_M
8	Seq Prs-Boot	3Byte	01A
9	Seq PrsPRG	8Byte	001Y
10	SQ-VIDEO	4Byte	001Y
11	SQ-PC	4Byte	001Y
12	Panel classification 1	1Byte	Р
13	Reserved	7Byte	*****

5 : Prod	uct form
D	Fixed

1 : Resolution / size		
3	1024*768-42	
4	1024*768-43	
5	1280*768-50	
6	1365*768-50	
7	1365*768-60	
F	1920*1080-50	

3 : Destination	on
*	Fixed

12 : Panel classification 1		
Р	Fixed	

2 : Gei	neration	
7	G7	

4 : Grade	
	Eived

179

Ε

### [QS4]: Response

Order	Data Contents	Length (BYTE)	Value	
1	STX	1	0x02	
2	Echo back	3	"QS4"	
3	Input function	3		Main input function (refer to the folloeing table)
4	Input signal classification	1		Input signal classification (refer to the folloeing table)
5	Vertical frequency information	1		Vertical frequency goup of input signal (refer to the folloeing table)
6	Main-screen size information	1		Main-screen size (refer to the folloeing table)
7	Color system	3		Input signal type or color system (refer to the folloeing table)
8	Destination information	3	"CMX"	
9	Check sum	2	(CS)	
10	ETX	1	0x03	

3

### [QS4]: Main input function

В

Input function (response)	Main input
"IN1"	INPUT1
"IN2"	INPUT2
"IN3"	INPUT3
"IN4"	INPUT4
"IN5"	INPUT5
"***"	No confirmation (at standby).

### [QS4]: Input signal classification

At PC sig	nal input	At VIDEO signal input		
Input signal classification (response)	Signal classification (status)	Input signal classification (response)	Signal classification (status)	
"-"	No signal input	"_"	No signal input	
"?"	OUT OF RANGE	"?"	OUT OF RANGE	
"A"	640x400/720x400	"1"	SDTV / 525i (480i)	
"B"	640x480	"2"	SDTV / 525p (480p)	
"C"	848x480/852x480	"3"	SDTV / 625i (576i)	
"D"	800x600	"4"	SDTV / 625p (576p)	
"E"	832x624	"5"	HDTV / 750p (720p)	
"F"	1024x768	"6"	HDTV / 1125i (1035i)	
"G"	1280x768	"7"	HDTV / 1125i (1080i)	
"H"	1152x864	"8"	HDTV / 1125p (1080p)	
" "	1152x870			
"J"	1152x900			
"K"	1280x960	1		
"L"	1280x1024	1		
"	1400×1050	1		

### [QS4]: Vertical frequency (grouping with frequency)

• •	- 1 7 (3 1-
Vertical frequency group (response)	Vertical frequency (Hz)
"_"	No signal input
"?"	OUT OF RANGE
"B"	20.0~28.0
"C"	28.0~45.0
"1"	45.0~54.5
"2"	54.5~58.2
"3"	58.2~63.0
"4"	63.0~68.0
"5"	68.0~73.4
"6"	73.4~73.9
"7"	73.9~80.0
"8"	80.0~88.5

### [QS4]: Main-screen size

Main-screen size (response)	Screen size
"0"	DOT BY DOT
"1"	4:3
"2"	FULL
"3"	ZOOM
"5"	WIDE
"6"	14:9
"9"	UNDERSCAN
"A"	2.35:1

### [QS4]: Color system

Color system (response)	Signal type	Color system
"NTV"	CVBS	NTSC
"PLV"		PAL
"SCV"		SECAM
"4NV"		4.43NTSC
"PMV"		PAL M
"PNV"		PAL N
"BWV"		Distinction inability/no signal input
"NTS"	Y/C	NTSC
"PLS"		PAL
"SCS"		SECAM
"4NS"		4.43NTSC
"PMS"		PAL M
"PNS"		PAL N
"BWS"		Distinction inability/no signal input
"CBR"		Y/Cb/Cr
"PBR"	COMPONENT	Y/Pb/Pr
"DCD"		RGB
"RGB" PC ANALOG		
"DIG"	DIGITAL VIDEO	
	PC DVI	

F

180

#### [QPI]: To acquire data on the integrator/PICTURE information

Order	Data Contents	Size	Remarks
1	STX	1Byte	02hex
2	Command echo back	3Byte	QPI (fixed)
3	CONTRAST	3Byte	000 - 255 Note 1
4	BRIGHTNESS	3Byte	000 - 255 Note 1
5	C,DETAIL R (RED)	3Byte	000 - 060 Note 1
6	C,DETAIL Y (YELLOW)	3Byte	000 - 060 Note 1
7	C,DETAIL G (GREEN)	3Byte	000 - 060 Note 1
8	C,DETAIL C (CYAN)	3Byte	000 - 060 Note 1
9	C,DETAIL B (BLUE)	3Byte	000 - 060 Note 1
10	C,DETAIL M (MAGENTA)	3Byte	000 - 060 Note 1
11	H.ENHANCE	3Byte	000 - 015 Note 1, 2
12	V.ENHANCE	3Byte	000 - 015 Note 1, 2
13	COLOR	3Byte	000 - 127 Note 1, 3
14	TINT	3Byte	000 - 060 Note 1, 3
15	SHARPNESS	3Byte	000 - 015 Note 1, 3
16	Main input function	3Byte	As the same contents as item 9 of QST command
17	Man screen size information	1Byte	As the same contents as item 11 of QST command
21	Check sum	2Byte	
22	ETX	1Byte	03hex

 $\mbox{\bf Note 1:}\ \mbox{\bf When the type of signal is not settled, dummy data are output.}$ 

Note 2: Dummy data are output at video signal input.

Note 3: Dummy data are output at PC signal input.

5

#### [QWB]: To acquire data on the integrator/WHITE BALANCE information

Order	Data Contents	Size	Remarks
1	STX	1Byte	02hex
2	Command echo back	3Byte	QWB (fixed)
3	R.HIGH	3Byte	000 - 255 Note 1
4	G.HIGH	3Byte	000 - 255 Note 1
5	B.HIGH	3Byte	000 - 255 Note 1
6	R.LOW	3Byte	000 - 255 Note 1
7	G.LOW	3Byte	000 - 255 Note 1
8	B.LOW	3Byte	000 - 255 Note 1
9	Main input function	3Byte	As the same contents as item 9 of QST command
10	Man screen size information	1Byte	As the same contents as item 11 of QST command
11	Check sum	2Byte	
12	ETX	1Byte	03hex

Note 1: When the type of signal is not settled, dummy data are output.

#### [QPS]: To acquire data on the integrator/SCREEN information

Order	Data Contents	Size	Remarks
1	STX	1Byte	02hex
2	Command echo back	3Byte	QPS (fixed)
3	H.POSITION	3Byte	000 - 255 Note 1
4	V.POSITION	3Byte	000 - 255 Note 1
5	H.SIZE	3Byte	000 - 064 Note 1
6	V.SIZE	3Byte	000 - 064 Note 1
7	CLOCK	3Byte	000 - 255 Note 1, 2
8	PHASE	3Byte	000 - 031 Note 1, 2
9	Main input function	3Byte	As the same contents as item 9 of QST command
10	Man screen size information	1Byte	As the same contents as item 11 of QST command
21	Check sum	2Byte	
22	ETX	1Byte	03hex

Note 1: When the type of signal is not settled, dummy data are output.

Note 2: Dummy data are output at DVI or video signal input.

181

В

С

D

Ε

PDP-507CMX

8

5

ь

## [QSS]: Response

В

Order	Data Contents	Length (BYTE)	Value	
1	STX	1	0x02	
2	Echo back	3	"QSS"	
3	COLOR TEMP.	1		1: LOW, 2: MID LOW, 3: MIDDLE, 4: MID HIGH, 5: HIGH
4	POWER MGT.	1		0: OFF, 1: ON
5	AUTO POWER OFF	1		0: DISABLE, 1: ENABLE
6	DNR	1		0: OFF, 1: LOW, 2: MIDDLE, 3: HIGH
7	MPEG NR	1		0: OFF, 1: LOW, 2: MIDDLE, 3: HIGH
8	СТІ	1		0: OFF, 1: ON
9	PURECINEMA	1		0: OFF, 1: ON
10	COLOR DECODING	1		1: RGB, 2: COMP1, 2: COMP2
11	COLOR SYSTEM	1		1: AUTO, 2: NTSC, 3: PAL, 4: SECAM, 5: 4.43NTSC, 6: PAL M, 7: PAL N
12	DVI SET UP (PLUG/PLAY)	1		1: PC, 2: VIDEO
13	DVI SET UP (BLACK LEVEL)	1		1: LOW, 2: HIGH
14	BRT.ENHANCE	1		0: OFF, 1: ON
15	SUB VOLUME	2		0~20
16	Main input function	3		Input function on Main-screen (refer to the following table)
17	Main-screen size information	1		Main-screen size (refer to the following table)
18	Check sum	2	(CS)	
19	ETX	1	0x03	

3

### [QSS]: Main-screen input function

Input function (response)	Input
"IN1"	INPUT1
"IN2"	INPUT2
"IN3"	INPUT3
"IN4"	INPUT4
"IN5"	INPUT5
"***"	No confirmation (at standby).

### [QSS]: Main-screen size

Main-screen size (response)	Screen size
"0"	DOT BY DOT
"1"	4:3
"2"	FULL
"3"	ZOOM
"5"	WIDE
"6"	14:9
"9"	UNDERSCAN
"A"	2.35:1

182

Ε

PDP-507CMX

2

### [QSO]: Response

5

Order	Data Contents	Length (BYTE)	Value	
1	STX	1	0x02	
2	Echo back	3	"QSO"	
3	ENERGY SAVE	1		0: STANDARD (50 inch=STADARD1), 1: MODE1, 2: MODE2, 3: MODE3, 4: AUTO, 5: MUTE, 6: STANDARD2 (only 50 inch)
4	TIMER	1		0: OFF, 1: PROGRAM, 2 : REPEAT
5	SCREEN MANAGEMENT (ORBITER)	1		0: OFF, 1: MODE1, 2: MODE2, 3: MODE3
6	SCREEN MANAGEMENT (SOFT FOCUS)	1		0: OFF, 1: 1, 2: 2, 3: 3, 4: 4
7	AUTO SETUP MODE	1		0: INACTIVE, 1: ACTIVE
8	AUTO FUNCTION	1		0: OFF, 1: INPUT1, 2:INPUT4
9	PIP DETECT	1		0: INACTIVE, 1: ACTIVE
10	SPLIT FREEZE	1		0: OFF, 1: S by S, 2: PIP
11	SCREEN MASK	1		0: OFF, 2: INVERSE, 3: WHITE, 4: RED, 5: GREEN, 6: BLUE, 7:YELLOW
12	SIDE MASK R-LEVEL	3		000~255
13	SIDE MASK G-LEVEL	3		000~255
14	SIDE MASK B-LEVEL	3		000~255
15	VIDEO WALL (MODE)	1		0: OFF, 1: 1, 2: 2x2, 3: 3x3, 4: 4x4, 5: 5x5
16	VIDEO WALL (POSITION)	2		1~56
17	VIDEO WALL (TYPE)	1		0: NORMAL, 1: ADJUSTED
18	VIDEO WALL (POWER ON DELAY)	1		0: OFF, 1:ON, 2: MODE1, 3: MODE2
19	VIDEO WALL (ABL LINK)	1		0: OFF, 1: ON
20	Reserved (dummy)	1		* disply
21	FAN CONTROL	1		1: AUTO, 2: MAX
22	OSD DISPLAY	1		0: OFF, 1: ON
23	OSD SIZE	1		0: LARGE, 1: SMALL
24	OSD ANGLE	1		0: H, 1: V
25	FRONT INDICATOR	1		0: OFF, 1: ON
26	COLOR MODE	1		1: NORMAL, 2: STUDIO
27	PRO USE UNDERSCAN	1		0: OFF, 1: ON
28	PRO USE IMAGE PROCESS	1		1: NORMAL, 2: PURE, 3: MONOTONE, 4: BLUE ONLY, 5: HIGH CONTRAST
29	PRO USE SYGNAL TYPE	1		1: MOTION, 2: STILL, 3: NON STD
30	FRC	1		0: OFF, 1: ON
31	POWER ON MODE INPUT	1		Refer to the following diagram
32	POWER ON MODE MULTI MODE	1		Refer to the following diagram
33	POWER ON MODE MULTI INPUT 1	1		1: INPUT1, 2: INPUT2, 3: INPUT3, 4: INPUT4, 5: INPUT5
34	POWER ON MODE MULTI INPUT 2	1		1: INPUT1, 2: INPUT2, 3: INPUT3, 4: INPUT4, 5: INPUT5
35	POWER ON MODE VOLUME	2		0~42, LAST: FF
36	SEAMLESS SW	1		0: OFF, 1: ON
37	SEAMLESS SW SELECT1	1		1: INPUT1, 2: INPUT2, 3: INPUT3, 4: INPUT4, 5: INPUT5
38	SEAMLESS SW SELECT2	1		1: INPUT1, 2: INPUT2, 3: INPUT3, 4: INPUT4, 5: INPUT5
39	MIRROR MODE	1		0: OFF, 1: X, 2: Y, 3: XY
40	MULTI SCREEN SET (S BY S SIZE)	1		1: NORMAL, 2: FULL
41	MULTI SCREEN SET (S BY S LAYOUT)	1		1: MODE1, 2: MODE2, 3: MODE3
42	MULTI SCREEN SET (PIP SIZE)	1		1~4
43	MULTI SCREEN SET (TRANSLUCENT PIP)	1		0: OFF, 1: 10%, 2: 20%, 3: 30%, 4: 40%, 5: 50%, 6: 60%, 7: 70%, 8: 80%
44	MULTI SCREEN SET (BANNER PIP)	1		0: OFF, 1: BOTTOM-1, 2: BOTTOM-2, 3: BOTTOM-3, 4: MID LOW, 5: MID HIGH, 6: TOP-3, 7: TOP-2, 8: TOP-1, 9: LEFT, A: RIGHT
45	MULTI SCREEN SET (BANNER INPUT)	1		1: INPUT1, 2: INPUT2
46	Main input function	3		Input function on the main-screen (refer to the following table)
47	Main-screen size information	1		Main-screen size (refer to the following table)
48	Check sum	2	(CS)	
49	ETX	1	0x03	

### [QSO]: POWER ON MODE INPUT

Input function (response)	Input
0	LAST
1	INPUT1
2	INPUT2
3	INPUT3
4	INPUT4
5	INPUT5
Α	MULTI

### [QSO]: POWER ON MODE MULTI MODE

Input function (response)	Input
1	SIDE BY SIDE1
2	SIDE BY SIDE2
3	SIDE BY SIDE3
4	BOTTOM LEFT
5	BOTTOM RIGHT
6	TOP RIGHT
7	TOP LEFT

### [QSO]: Main-screen size

Main-screen size (response)	Screen size
"0"	DOT BY DOT
"1"	4:3
"2"	FULL
"3"	ZOOM
"5"	WIDE
"6"	14:9
"9"	UNDERSCAN
"A"	2.35:1

### [QSO]: Main-screen input function

[ Coo ] man ooroon mpar ia.				
Input function (response)	Input			
"IN1"	INPUT1			
"IN2"	INPUT2			
"IN3"	INPUT3			
"IN4"	INPUT4			
"IN5"	INPUT5			
"***"	No confirmation (at standby)			

183

В

С

D

Ε

PDP-507CMX

3

5

## [QCI]: Response format

Order	Data Contents	Length (BYTE)	Value	
1	STX	1	0x02	
2	Echo back	3	"QCI"	
3	Time information	2		Time (24 hours system)
				If the data for the current time are fewer than two digits (0-9,) the higher-order digit will be padded with a zero.
		2		Minute If the data for the current minute are fewer than two digits (0-9,) the higher-order digit will be padded with a zero.
		2		Seconds If the data for the current second are fewer than two digits (0-9,) the higher-order digit will be padded with a zero.
4	Dummy data	8		All "*"
5	Days	1		Days (refer to the following table)
6	Check sum	2	(CS)	
7	ETX	1	0x03	

### [QCI]: Days

В

Days (response)	Days
"1"	Sunday
"2"	Monday
"3"	Tuesday
"4"	Wednesday
"5"	Thursday
"6"	Friday
"7"	Saturday

### [QSU]: To acquire data on the audio status

Order	Data Contents	Size	Remarks
1	STX 1Byte 02hex		02hex
2	Command echo back	3Byte	QSU (fixed)
3	Main volume	3Byte	000 - 042
4	4 Audio mute state 1Byte		0: OFF 1: ON
5	5 INPUT1 sub volume 3Byte		000 - 020
6	INPUT2 sub volume 3Byte		000 - 020
7	INPUT3 sub volume 3Byte		000 - 020
8	INPUT4 sub volume	3Byte	000 - 020
9	INPUT5 sub volume 3Byte 000 - 020		000 - 020
10	Check sum	2Byte	
11	ETX	1Byte	03hex

### [QSI]: Response format

Data Arrangement		Data Length	Output Example	
	ECO	3 Byte	QSI	
1	Type of drive sequence	3 Byte	60V	
2	Standard/nonstandard	1 Byte	S	
3	Type of ABL/WB tables	2 Byte	T1	
4	Total value of PCN	4 Byte	0256	
5	Total value of PRH	4 Byte	0256	
6	Total value of PGH	4 Byte	0256	
7	Total value of PBH	4 Byte	0256	
8	Total value of PBR	4 Byte	0512	
9	Total value of PRL	4 Byte	0512	
10	Total value of PGL	4 Byte	0512	
11	Total value of PBL	4 Byte	0512	
12	Total value of ABL	3 Byte	128	
13	Detection of V frequency	4 Byte	6002	
14	Detection of existence of H	1 Byte	Y	
15	Reserved	3 Byte	***	
16	Obtained APL data	4 Byte	1023	
17	Number of SUS pulses	4 Byte	0457	
18	Result of detection of still picture	1 Byte	1	
19	Result of detection of cracking in the panel	1 Byte	1	
20	Result of detection for scanning protection	1 Byte	1	
21	Result of detection for external protection	1 Byte	1	
22	Transition of protection operation	1 Byte	0	
23	Reserved	4 Byte	***	
	CS	2 Byte	27	

14: Detection of existence of H		
N	No H	
Υ	H detected	

	18 to 20: Each protection operation status
0	Setting OFF
1	Setting ON (waiting)
2	Setting ON (during operation)

	22: Transition of brightness by protection operation
0	Upper limit state for brightness
1	Brightness being reduced
2	Lower limit state for brightness
3	Brightness being increased

F

184

PDP-507CMX

3

#### [QS2] Response format

5

	Data Arrangement	Data Length	Output Example	
ECO		3 Byte	QS2	
1	Notification of mode shifting to STB	1 Byte	1	
2	Flag for adjustment of the main unit	1 Byte	0	
3	Flag for adjustment-data backup	1 Byte	0	
4	"1st PD" data	1 Byte	0	
5	"2nd PD" data	1 Byte	0	
6	Still picture detection	1 Byte	0	
7	Reserved	2 Byte	**	
8	Temperature data (TEMP 1)	3 Byte	128 (* <sup>1</sup> )	
9	SD main data	1 Byte	0	
10	SD sub data	1 Byte	0	
11	Operation status induced by SD	1 Byte	0	
12	12 Data from the hour meter 8 Byte 00000259 (		00000259 (*2)	
13	13 MASK indication		0	
CS		2 Byte	4A	

Note: (*1): The unit scale is centigrade.	The data is A/D value from the
Alexander a second	

thermal sensor. (\*2): "00000259" of "Data from the hour meter" means 2 hours 59 minuts.

4, 5: PD data		
0	No PD data	
1	Not used	
2	POWER	
3	SCAN	
4	SCN-5V	
5	Y-DRV	
6	Y-DCDC	
7	Y-SUS	
8	ADRS	
9	X-DRV	
Α	X-DCDC	
В	X-SUS	
С	Not used	

4, 5: PD data		
0	No PD data	
1	Not used	
2	POWER	
3	SCAN	
4	SCN-5V	
5	Y-DRV	
6	Y-DCDC	
7	Y-SUS	
8	ADRS	
9	X-DRV	
Α	X-DCDC	
В	X-SUS	
С	Not used	
D	Not used	
Е	Not used	
F	UNKNOWN	

6: Still picture detection	
0	Normal screen
1	Still picture

7

9: SD main data		
0	No SD	
1	SQ-IC	
2	MDU-IIC	
3	RST2	
4	TEMP	

10-1: SD-Sub (SQ-IC)	
0	No SD-Sub data
1	Communication error
2	Drive stop
3	BUSY
6	Version mismatching

10-2: SD-Sub (IIC)			10-3: SD	-Sub (TEMP)
0	No SD-Sub data		0	No SD-Sub data
1	EEPROM		1	TEMP1
2	BACKUP		2	Reserved
3	DAC	Ι.		

11: Op ind	peration status duced by SD
0	Normal
1	Relay-off completed
2	During warning indication

13: MA	SK indication
0	MASK-OFF
1	MASK-ON

В

С

D

Ε

F

[QIP] Response format

Notification of mode shifting to Standby

Adjustment of the main unit

Adjustment-data backup With backup data No data (default)

0

Entering Standby mode failed

Entering Standby mode succeeded

Adjustment completed
Adjustment not completed

	Data Arrangement	Data Length	Output Example
ECO		3 Byte	QIP
1	SERIAL	15 Byte	
2	HOUR METER	8 Byte	00000000
3	TOTAL HOUR METER	8 Byte	00000000
4	PON COUNTER	8 Byte	00000000
5	TEMP1 acquisition (Temperature value)	5 Byte	+23.5(*)
6	TEMP0 acquisition (Temperature value)	5 Byte	+28.7(*)
7	MAX-TEMP1 acquisition (Temperature value)	5 Byte	+78.3(*)
8 Reserved		4 Byte	****
CS		2 Byte	94

(\*) : Centigrade scale

#### [QAJ] Response format

	Data Arrangement	Data Length	Output Example	
ECO		3 Byte	QAJ	
1	V-SUS adjustment value	3 Byte	128	
2	V-OFT adjustment value	3 Byte	128	
3	V-RST-P adjustment value	3 Byte	128	
4	Reserved	3 Byte	***	
5	XSB adjustment value	3 Byte	128	
6	YSB adjustment value	3 Byte	128	
7	YTG adjustment value	3 Byte	128	
8	YTW adjustment value	3 Byte	128	
9	RSW adjustment value	3 Byte	128	
10	YTB adjustment value	3 Byte	128	
11	RYW adjustment value	3 Byte	128	
12	R-REVICE setting value	1 Byte	0	
13	G-REVICE setting value	1 Byte	0	
14	B-REVICE setting value	1 Byte	0	
CS	CS 2 Byte			

<sup>•</sup> For each REVICE setting value, the level set for RRL, RGL, or RBL is transmitted as one character.

5

### [QPW]: Response format

	Data Arrangement	Data Length	Output Example
ECO		3 Byte	QPW
1	Drive sequence	3 Byte	60V
2	Standard/nonstandard	1 Byte	S
3	Type of ABL/WB tables	2 Byte	T2
4	ABL adjustment value	3 Byte	128
5	R-HIGH adjustment value	3 Byte	256
6	G-HIGH adjustment value	3 Byte	256
7	B-HIGH adjustment value	3 Byte	256
8	R-LOW adjustment value	3 Byte	512
9	G-LOW adjustment value	3 Byte	512
10	B-LOW adjustment value	3 Byte	512
11	Gamma setting	1 Byte	Α
12	Streaking correction	1 Byte	1
13	Peripheral luminance correction	1 Byte	0
14	Reserved	1 Byte	*
15	WB interlocked with APL	1 Byte	0
16	Transition of protective operations	1 Byte	0
17	Reserved	2 Byte	**
cs		2 Byte	37

Video 48 Hz
Video 50 Hz
Video 60 Hz
Video 72 Hz
Video 75 Hz
PC 60 Hz
PC 70 Hz

1	12, 15: 9	Setting for Items 12 and 15
	0	OFF
	1	ON

13: Peripheral luminance correction		
	0	OFF
	2	ON (interlocked with APL)

2: Standard / nonstandard		
S	Standard	
N	Nonstandard	

16: Transition of brightness by protective operations	
0	Upper limit state for brightness
1	Brightness being reduced
2	Lower limit state for brightness
3	Brightness heing increased

3: Type	of ABL/WB tables
Tn	n: 1 to 4

11: Gam	ma setting
n	0 to F

### [QPM]: Response format

В

С

	Data Arrangement	Data Length	Output Example
ECO		3Byte	QPM
1	Pulse meter B 1	8Byte	00000000
2	Pulse meter B 2	8Byte	00000000
3	Pulse meter B 3	8Byte	00000000
4	Pulse meter B 4	8Byte	00000000
5	Pulse meter B 5	8Byte	00000000
CS		2Byte	E7

### [QPD]: Response format

	Data Arrangement	Data Length	Output Example	
ECO		3 Byte	QPD	
1	Latest "1st PD" data	1 Byte	Α	
2	Latest "2nd PD" data	1 Byte	2	
3	Data from the hour meter for the latest PD	8 Byte	00010020	
4	Second latest "1st PD" data	1 Byte	Е	
5	Second latest "2nd PD" data	1 Byte	9	
6	Data from the hour meter for the second latest PD	8 Byte	00008523	
7	Third latest "1st PD" data	1 Byte	4	
8	Third latest "2nd PD" data	1 Byte	3	
9	Data from the hour meter for the third latest PD	8 Byte	00004335	
10	Fourth latest "1st PD" data	1 Byte	2	
11	Fourth latest "2nd PD" data	1 Byte	0	
12	Data from the hour meter for the fourth latest PD	8 Byte	00000945	
13	Fifth latest "1st PD" data	1 Byte	4	
14	Fifth latest "2nd PD" data	1 Byte	0	
15	Data from the hour meter for the fifth latest PD	8 Byte	00000715	
16	Sixth latest "1st PD" data	1 Byte	Α	
17	Sixth latest "2nd PD" data	1 Byte	2	
18	Data from the hour meter for the sixth latest PD	8 Byte	00000552	
19	Seventh latest "1st PD" data	1 Byte	Α	
20	Seventh latest "2nd PD" data	1 Byte	0	
21	Data from the hour meter for the seventh latest PD	8 Byte	00000213	
22	Eighth latest "1st PD" data	1 Byte	D	
23	Eighth latest "2nd PD" data	1 Byte	0	
24	Data from the hour meter for the eighth latest PD	8 Byte	000001A7	
CS		2 Byte	27	

1, 2, 4, 5: PD data				
0	No PD			
1	Not used			
2	P-POWER			
3	SCAN			
4	SCN-5V			
5	Y-DRIVE			
6	Y-DCDC			
7	Y-SUS			
8	Address			
9	X-DRIVE			
Α	X-DCDC			
В	X-SUS			
С	Not used			
D	Not used			
Е	Not used			
F	UNKNOWN			

F

Е

186

PDP-507CMX

2

3

### [QNG]: Response format

5

Order	Data Contents	Length (BYTE)	Value	
1	STX	1	0x02	
2	Echo back	3	"QNG"	
3	Latest SHOT DOWN information	12		Causes for the last 8 shutdowns, time data of the Hour Meter
4	Second latest SHOT DOWN information	12	]	when a shutdown was generated, and sensor temperatures
5	Third latest SHOT DOWN information	12	1	
6	Fourth latest SHOT DOWN information	12	]	detected when a shutdown was generated
7	Fifth latest SHOT DOWN information	12	1	(Refer to the following tables).
8	Sixth latest SHOT DOWN information	12	1	
9	Seventh latest SHOT DOWN information	12	1	
10	Eighth latest SHOT DOWN information	12	1	
11	Check sum	2	(CS)	
12	ETX	1	0x03	

### [QNG]: SHOT DOWN information

Order	Data Contents	Length (BYTE)	Value	
1	SD category information	1		SD category (refer to the following table) "0" if a shutdown was not generated.
2	SD subcategory information	1		Subcategory information (refer to the following table) "0" if a corresponding subcategory did not exist, or if a shutdown was not generated.
3	HOUR METER	5		Time data of the Hour Meter controlled by the Main microcomputer when a shutdown was generated. If the time data of the Hour Meter are fewer than five digits, the higher-order digits will be padded with zeros.  "0" if a shutdown was not generated.
4	Dummy	2		All "*"
5	Temperature information	3		Sensor temperatures (in Celsius) detected when a shutdown was generated. If the temperatures are fewer than three digits, the higher-order digits will be padded with zeros. "0" if a shutdown was not generated.

### [QNG]: SD category / SD subcategory

SD category (response)	SHOT DOWN factor	With/without subcategory	SD subcategory (response)	Bubcategory factor
"0"	No SD (no abnormality)	No	"0"	
"5"	Speaker short-circuit	No	"0"	
"6"	Module microcomputer communication failure	No	"0"	
"7"	Not used	-	-	-
"8"	IIC communication failure	With	"1"	EEPROM communication failure
		· · · · · · · · · · · · · · · · · · ·	"3"	VIDEO SLOT IC1 (CVBS) communication failure
			"4"	VIDEO SLOT IC1 (Y/C) communication failure
			"5"	A/D Main (A system) communication failure
			"6"	A/D Sub (B system) communication failure
			"7"	IC6 communication failure
			"F"	VIDEO SLOT EEPROM communication failure
			"J"	AUDIO CONTROL IC communication failure
			"K"	Expansion I/O2 communication failure
			"L"	Temperature sensor failure
"A"	FAN stop	With	"1"	FAN stop
"B"	Temperature abnormality (high temperature)	With	"1"	High temperature of temperature sensor 1
			"2"	High temperature of temperature sensor 2
			"3"	High temperature of temperature sensor 3
			"4"	High temperature of temperature sensor 4
"D"	Power supply voltage abnormality	No	"0"	3.3V detection
"F"	Other abnormality	With	"1"	RLS cable comes off
			"2"	DC reducing voltage for COMM SLOT
			"3"	DC reducing voltage for VIDEO SLOT
"9"	Failure except the above (main microcomputer failure)	With	"0"	Except the above
			"Z"	Voltage abnormality (3.3V overvoltage) (only 607)

187

С

Ε

PDP-507CMX

8

## [QSD]: Response format

В

Command Forma	t Effective Operation Modes	Function	Remarks
[QSD]	All operations	To acquire data on the shutdown logs	Return data: 3 (ECO)+80(DATA)+2(CS)= 85 Byte

	Data Arrangement	Data Length	Output Example
ECO		3Byte	QSD
1	Latest SD data	1byte	1
2	Latest SD subcategory data	1byte	0
3	Data from the hour meter for the latest SD	8byte	00752013
4	Second latest SD data	1byte	5
5	Second latest SD subcategory data	1byte	0
6	Data from the hour meter for the second latest SD	8byte	00495204
7	Third latest SD data	1byte	2
8	Third latest SD subcategory data	1byte	3
9	Data from the hour meter for the third latest SD	8byte	00100355
10	Fourth latest SD data	1byte	2
11	Fourth latest SD subcategory data	1byte	5
12	Data from the hour meter for the fourth latest SD	8byte	00075620
13	Fifth latest SD data	1byte	1
14	Fifth latest SD subcategory data	1byte	0
15	Data from the hour meter for the fifth latest SD	8byte	00000852
16	Sixth latest SD data	1byte	2
17	Sixth latest SD subcategory data	1byte	5
18	Data from the hour meter for the sixth latest SD	8byte	000000451
19	Seventh latest SD data	1byte	0
20	Seventh latest SD subcategory data	1byte	0
21	Data from the hour meter for the seventh latest SD	8byte	00000000
22	Eighth latest SD data	1byte	0
23	Eighth latest SD subcategory data	1byte	0
24	Data from the hour meter for the eighth latest SD	8byte	00000000
CS		2Byte	7D

• SD d	SD data	
0	No SD	
1	SQ-IC	
2	MDU-IIC	
3	RST2	
4	TEMP	

• SD si	SD subcategory (SQ-IC)		
0	No SD-Sub data		
1	Communication error		
2	Drive stop		
3	BUSY		
6	Version mismatching		

SD subcategory (MDU-IIC)						
0	No SD-Sub data					
1	EEPROM					
2	BACKUP					
3	DAC					

• SD su	bcategory (TEMP)
0	No SD-Sub data
1	TEMP1
_	Description

F

Ε

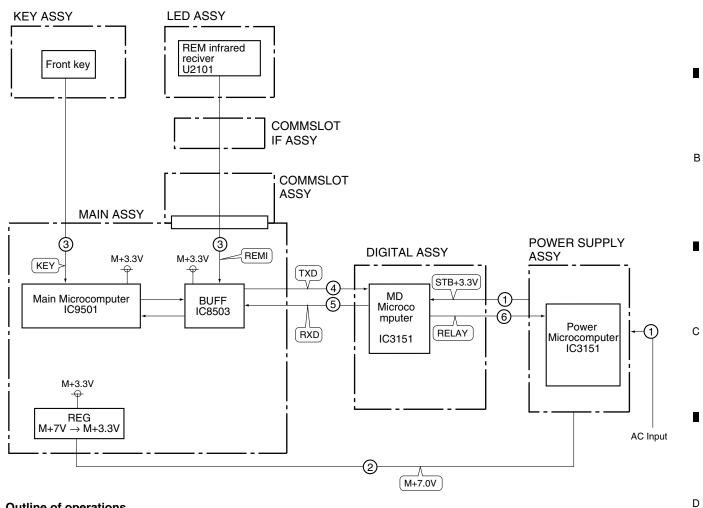
188

PDP-507CMX

8

# 10. GENERAL INFORMATION

### 10.1 POWER ON SEQUENCE



#### **Outline of operations**

- ① Once AC power is input, 3.3 V power is supplied to the MD microcomputer by the Power Unit. Then the MD microcomputer starts up.
- 2 Once the Main power switch on the main unit is set to ON, M+7 V power is supplied to the Main microcomputer by the Power Unit. Then the Main microcomputer starts up.
- 3 A power-on request can be issued from a key on the main unit or on the remote control unit.
- (4) After confirming a QS2 (checking of SD or PD), the Main microcomputer issues a PON command.
- ⑤ The MD microcomputer returns a PON echo to the Main microcomputer.
- **6** The MD microcomputer sends the RELAY signal to start up the Power microcomputer.

189

8

Ε

#### 10.2 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM

#### **Function:**

It is an operational mode where the digital signal processing performs circuit operation but the power is not supplied to the panel driving system (large signal system) in order to avoid a power down.

#### **Application:**

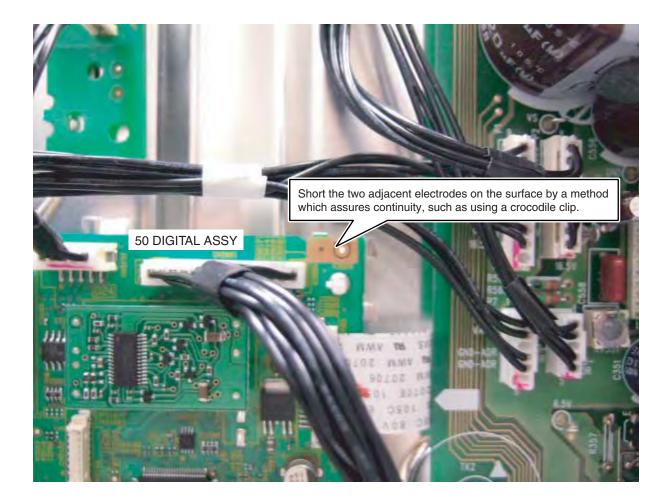
- 1. When it is necessary to check whether the signal output is correctly reaching the drive system in a repairing activity etc.
- 2. In the case of a PD, to determine whether the problem is with the large signal system power supply or with the small signal system power supply.

#### Method:

- 1. Make shorting between the specified location (refer to the illustration below) of the PCB surface of the 50 DIGITAL ASSY and the nearby pattern.
- 2. Execute [DRV S00] by RS232C command. ([DRV S01] for release)

#### Supplemental explanation:

- When the large signal system power supply is in OFF state, there will be no PD, except PS\_PD, as the PD signal has been muted.
- If the clip is removed in the OFF state of the large signal system power supply, PD will take place at the instance of clip removal. Therefore, be sure to remove the clip after turning the power OFF.
- Under RS232C command control, [DRVS01] (release) is possible during power ON. However, there is a possibility of damaging the set. Therefore, make this operation only after turning the power OFF.
- Command [DRVS00/S01] is effective even during standby. When the main power is turned OFF, however, [DRVS01] (release) will be effective.



190

6

7

Α

8

В

С

D

Ε

191

F

PDP-507CMX

8

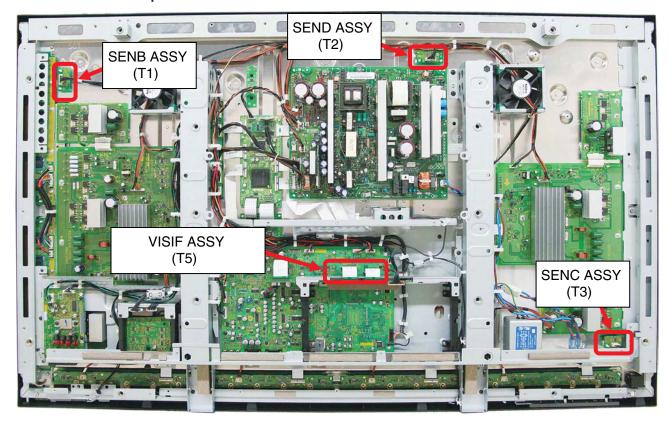
5

#### 10.4 FAN CONTROL

В

The fan is controlled according to data on temperatures detected by T1-T3 and T5 sensors.

#### **■** Location of the temperature sensors



#### ■ Fan control during normal installation of the PDP

Set the settings for OPTION and FAN CONTROL in INTEGRATOR to AUTO:

AUTO control (Unit: °C)

Change of the rotation speed of the fan	Without a slot mechanism/with the slot mechanism manufactured by Pioneer	With a slot mechanism manufactured by another maker
OFF ⇔ L	60	61
$L \Leftrightarrow M$	63	64
$M \Leftrightarrow H$	67	67
Abnormal temperature	82	82

- The rotation speed of the fan is controlled according to signals from T1-T3 and T5 temperature sensors, as shown above:
- As the hysteresis when switching the fan speed, the state just before switching is maintained for 30 seconds.
- If the temperature rises to a level defined as abnormal, shutdown procedures will follow.
- Even if the detected temperature falls below the temperature at which the fan speed is defined to be switched from L to OFF, the fan keeps rotating at the L speed and does not stop. Rotation of the fan is canceled only when the power is turned off then back on again.

#### ■ Fan control while the unit is installed in a special orientation

• When the unit is installed 90° from normal or upside down, with the screen side upward set the settings for OPTION and FAN CONTROL in INTEGRATOR to MAX (mode in which the fan rotation speed is always high).

192

Ε

## 11. SPECIFICATIONS 11.1 MAIN SPECIFICATIONS

## **Specifications**

Conorol	(DDD E07CMV)
General	(PDP-507CMX)

Light emission panel ...... 50V type AC Plasma Panel 110.36 cm (W) x 62.09 cm (H) x 126.63 cm (diagonal) Number of pixels ......1365 x 768 Power supply...... AC 120 V, 60 Hz Standby power consumption ......0.6 W External dimensions ......1222 mm (W) x 736 mm (H) x 99 mm (D: Not including handles) 48-1/8 in. (W) x 28-31/32 in. (H) x 3-29/32 in. (D: Not including handles) Operating temperature range ...... 0 °C to 40 °C

### General (DDD-50MYF20/DDD-50MYF20-S)

General (PDF-50WAE20/PDF-50WAE20-5)	
Light emission panel50V type AC Plasma 110.36 cm (W) x 62.09 cm (H) x 126.63 cm (dia	
Number of pixels	5 x 768
Power supply AC 100 V to 240 V, 50 Hz	z/60 Hz
Rated current 3.7 A to	o 1.5 A
Standby power consumption	0.6 W
External dimensions	
Weight	35.5 kg
Operating temperature range 0 °C to	40 °C

#### Input/output Video

#### INPUT1 (Input)

Mini D-sub 15 pin (socket connector) RGB signal (G ON SYNC compatible) RGB ...  $0.7 \text{ Vp-p/75} \Omega/\text{no sync}$ . HD/VS, VD ... TTL level /positive and negative polarity  $/2.2 \text{ k}\Omega$ G ON SYNC

... 1 Vp-p/75  $\Omega$ /negative sync. \*Compatible with Microsoft "Plug & Play" (VESA DDC 1/2B)

(Output) Mini D-sub 15 pin (socket connector) 75  $\Omega$ /with buffer

#### INPUT2 (Input)

DVI-D 24-pin connector Digital RGB signal (DVI compliant TMDS

\*Compatible with Microsoft "Plug & Play" (VESA DDC 2B)

#### **Audio**

(Input AUDIO INPUT (for INPUT1) Stereo mini jack

L/R ... 500 mVrms/more than 10  $k\Omega$ 

AUDIO INPUT (for INPUT2) Stereo mini jack

L/R ... 500 mVrms/more than 10 k $\Omega$ 

Output AUDIO OUTPUT

Stereo mini jack

L/R ... 500 mVrms (max)/less than 5 k $\Omega$ 

L/R ... 6  $\Omega$  to 16  $\Omega$ /9 W +9 W (at 6  $\Omega$ )

#### Control

RS-232C... D-sub 9 pin (pin connector) **COMBINATION IN/OUT** ... Mini DIN 6 pin (x2)

#### Accessories

Power cord (2 m/6.6 feat)	1
Remote control unit	
AA (R6) batteries	2
Cleaning cloth (for screen)	1
Speed clamps	3
Bead bands	3
Ferrite cores (for audio cables)	3
Operating Instructions	1
Warranty	1

· Due to improvements, specifications and design are subject to change without notice.

В

С

D

Ε

Check that the following accessories were supplied.

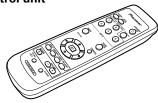
1 Power cord (2 m/6.6 feet) [ADG1215]: PDP-507CMX/KUC Only



1 Power cord [VEM1031 & AEX1025]: PDP-50MXE20, 50MXE20-S



2 Remote control unit [AXD1528]



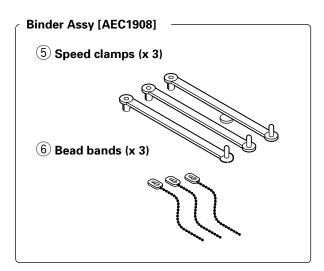
3 Batteries (x 2)

D



4 Cleaning cloth (for screen) [AED1285]





(7) Ferrite cores (x 3) (for audio cables) [ATX1039]: Expect PDP-507CMX/KUC



- These Operating Instructions [ARD1075]
- Warranty

#### Main unit

#### (1) Remote control sensor

Point the remote control toward the remote sensor to operate the unit.

#### 2 Ambient light sensor

This sensor measures the level of light inside the viewing room; it is enabled when the [ENERGY SAVE] option is set to [AUTO].

#### 3 STANDBY/ON indicator

When the unit is operating:

The indicator lights green.

When flashing, the indicator is used to indicate error messages.

The indicator flashes green once every one second when the [POWER MGT.] function is operating.

When the unit is in standby mode:

The indicator lights red.

When flashing, the indicator is used to indicate error messages.

#### 4 Handles

#### Operation panel on the main unit

#### ⑤ STANDBY/ON button (心)

Press to put the display in operation or standby mode.

#### 6 MENU button

Press to open and close the on-screen menu.

#### 7 DISPLAY/SET button

Use to confirm onscreen menu selections, and to change settings.

When not indicated by onscreen menus, used to display the current set status.

#### 8 INPUT (↑) button

Except when menu screen is displayed, this button operates to change the input.

#### (9) SCREEN SIZE (↓) button

Except when menu screen is displayed, this button operates to change the screen size.

#### 10 VOL +/- (⟨= / ⇒) buttons

When not indicated for use in onscreen menu items, these buttons are used for adjusting the sound volume .

195

В

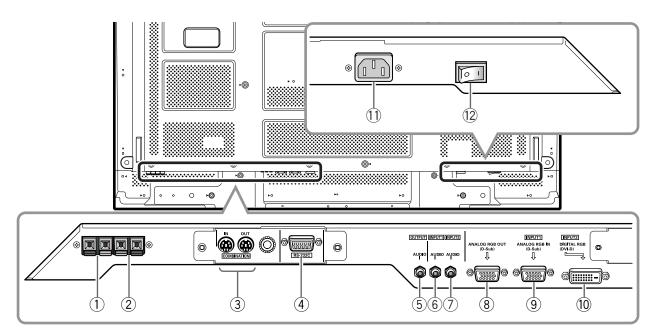
С

D

Ε

### Connection panel

The connection panel is provided with two video input terminals and one video output terminal. Audio input/output and speaker output terminals are also provided. For instructions regarding connections, consult the pages noted in parentheses by each item.



#### 1) SPEAKER (R) terminal

For connection of an external right speaker. Connect a speaker that has an impedance of 6  $\Omega$ .

2 SPEAKER (L) terminal

For connection of an external left speaker. Connect a speaker that has an impedance of 6  $\Omega$ .

(3) COMBINATION IN/OUT

Never connect any component to these connectors without first consulting your Pioneer installation technician.

- These connectors are used for Plasma Display setup adjustments.
  - (4) RS-232C

Ε

Never connect any component to this connector without first consulting your Pioneer installation technician.

This connector is used for Plasma Display setup adjustments.

5 AUDIO (OUTPUT) (Stereo mini jack)

Use to output the audio of the selected source component connected to this unit to an AV amplifier or similar component.

**Note:** No sound is produced from the AUDIO (OUTPUT) jack when the MAIN POWER switch is set to OFF or ON (standby).

6 AUDIO (INPUT1) (Stereo mini jack)

Use to obtain sound when INPUT1 is selected. Connect the audio output jack of components connected to INPUT1 to this unit.

#### 7 AUDIO (INPUT2) (Stereo mini jack)

Use to obtain sound when INPUT2 is selected. Connect the audio output jack of components connected to INPUT2 to this unit.

(8) ANALOG RGB OUT (INPUT1) (mini D-sub 15 pin)
Use the ANALOG RGB OUT (INPUT1) terminal to
output the video signal to an external monitor or other
component.

**Note:** The video signal will not be output from the ANALOG RGB OUT (INPUT1) terminal when the main power of this unit is off or in standby mode.

- (9) ANALOG RGB IN (INPUT1) (mini D-sub 15 pin) For connection of a personal computer (PC) or similar component. Make sure that the connection made corresponds to the format of the signal output from the connected component.
- ① DIGITAL RGB (INPUT2) (DVI-D jack)
  Use to connect a computer.

Note: This unit does not support the display of copyguard-protected video signals (page 13).

copyguard-protected video sign

(1) AC IN

Use to connect the supplied power cord to an AC outlet.

(12) MAIN POWER switch

Use to switch the main power of the unit on and off.

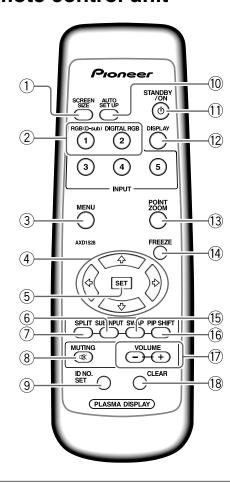
196

PDP-507CMX

2

3

### Remote control unit



### When handling the remote control unit

- Do not drop the remote control unit or expose it to moisture.
- Do not use the remote control unit in a location subject to direct sunlight, heat radiation from a heater, or in a place subject to excessive humidity.
- When the remote control unit's batteries begin to wear out, the operable distance will gradually become shorter. When this occurs, replace all batteries with new ones as soon as possible.

#### 1 SCREEN SIZE button

Press to select the screen size.

#### 2 INPUT buttons

Press to select the input.

#### (3) MENU button

Press to open and close the on-screen menu.

#### **4** ADJUST ( **△** / **▼** / **▶** / **◄** ) buttons

5

Use to navigate menu screens and to adjust various settings on the unit.

#### (5) SET button

Press to adjust or enter various settings on the unit.

#### (6) SUB INPUT button

During multi-screen display, use this button to change inputs to subscreens.

#### (7) SPLIT button

Press to switch to multi-screen display.

#### (8) MUTING button

Press to mute the volume.

#### (9) ID NO. SET button

Button used by professional installers.

#### 10 AUTO SET UP button

When using computer signal input, automatically sets the [POSITION], [CLOCK] and [PHASE] to optimum values.

#### ① STANDBY/ON button (也)

Press to put the unit in operation or standby mode.

#### 12 DISPLAY button

Press to view the unit's current input and setup mode.

#### 13 POINT ZOOM button

Use to select and enlarge one part of the screen.

#### (14) FREEZE button

When memo screen function is enabled, a still image is displayed in the subscreen.

#### 15 SWAP button

During multi-screen display, use this button to switch between main screen and subscreen.

#### (16) PIP SHIFT button

When using the picture-in-picture mode with multiscreen display, use this button to move the position of subscreen.

#### 17 VOLUME (+/-) buttons

Use to adjust the volume.

#### 18 CLEAR button

Button used by professional installers.

197

В

С

D

Ε

# 11.4 ADDITIONAL INFORMATION

# **Appendix 1: Computer signal compatibility table**

3

# Appendix 1-1/2 (INPUT 1)

: Not available.

Resolution	Refresh rate		Scre	en size (Dot x	Daniel alle	
(Dot x Line)	Vertical	Horizontal	DOT BY DOT	4:3	FULL	Remarks
640x400	70.1 Hz	31.5 kHz	O 640x480		O 1365x768	NEC PC-9800
720x400	70.1 Hz	31.5 kHz	○ 720x400		O 1365x768	NEC PC-9800
Ī	85.1 Hz	37.9 kHz	1		1	
640x480	59.9 Hz	31.5 kHz	640x480	O 1024x768	O 1365x768	
	66.7 Hz	35.0 kHz	<b>†</b>	1	<b>†</b>	Apple Macintosh 13"
	72.8 Hz	37.9 kHz	<u>†</u>	<u>†</u>	1	
	75 Hz	37.5 kHz	<b>†</b>	1	<b>†</b>	
	85 Hz	43.3 kHz	<b>†</b>	1	<b>†</b>	
	100.4 Hz	51.1 kHz	<b>†</b>	<u> </u>	<u> </u>	I/O DATA
	120.4 Hz	61.3 kHz	1	<b>†</b>	<b>†</b>	I/O DATA
848x480	60 Hz	31.0 kHz	0 848x480		O 1365x768	
852x480	60 Hz	31.7 kHz	0 852x480		O 1365x768	I/O DATA
800x600	56.3 Hz	35.2 kHz	0 800x600	O 1024x768	O 1365x768	
Γ	60.3 Hz	37.9 kHz	<u>†</u>	1	<u> </u>	
	72.2 Hz	48.1 kHz	1	<u>†</u>	<u> </u>	
	75 Hz	46.9 kHz	<b> </b>	1	<u> </u>	
	85.1 Hz	53.7 kHz	1	1	<b>†</b>	
	99.8 Hz	63.0 kHz	1	1	1	I/O DATA
Ī	120 Hz	75.7 kHz	<u>†</u>	<u>†</u>	1	I/O DATA
832x624	74.6 Hz	49.7 kHz	0 832x624	0 1024x768	0 1365x768	Apple Macintosh 16"
1024x768	60 Hz	48.4 kHz	© 1024x768		O 1365x768	
Ī	60 Hz	49.7 kHz	1		1	Work station (SGI)
	70.1 Hz	56.5 kHz	Ť		Ť	,
Ţ	75 Hz	60.0 kHz	1		†	() Seedington April - Manieta de 400
	(74.9 Hz)	(60.2 kHz)				() indicates Apple Macintosh 19
	85 Hz	68.7 kHz	Ţ		Ţ	UO DATA
Į.	100.6 Hz	80.5 kHz	Ţ		Ţ	I/O DATA
1000.700	119.4 Hz	95.5 kHz	<u>†</u>		T	
1280x768	56.2 Hz	45.1 kHz	1280x768		1365x768	
Į.	59.8 Hz	48 kHz	Ţ .		Ţ Į	
1000 700	69.8 Hz	56 kHz	<u>†</u>		T I	1/0 5.47
1360x768	60 Hz	47.7 kHz	0 1360x768		∆ 1365x768	I/O DATA
1376x768	59.9 Hz	48.3 kHz			∆ 1365x768	I/O DATA
1280x800	59.8 Hz	49.7 kHz			∆ 1365x768	CVT
1280x854	60 Hz	53.1 kHz			∆ 1365x768	PC
1152x864	60 Hz	53.7 kHz		△ 1024x768	∆ 1365x768	
	72 Hz	64.9 kHz		1	<u> </u>	
	75 Hz	67.5 kHz		1	<u>†</u>	
1152x870	75.1 Hz	68.7 kHz		△ 1024x768	∆ 1365x768	Apple Macintosh 21"
1152x900	66 Hz	61.8 kHz		△ 1024x768	∆ 1365x768	Sun Microsystems LO
T t	76 Hz	71.7 kHz		<b>†</b>	<b>↑</b>	Sun Microsystems HI

198

PDP-507CMX

Resolution	Refresh rate		Scre	en size (Dot x	line)	Demonto
(Dot x Line)	Vertical	Horizontal	DOT BY DOT	4:3	FULL	Remarks
1440x900	59.9 Hz	55.9 kHz			∆ 1365x768	Apple Macintosh 17"
1280x960	60 Hz	60.0 kHz		∆ 1024x768	∆ 1365x768	
	85 Hz	85.9 kHz		1	<b>†</b>	
1280x1024	60 Hz	64.0 kHz			∆ 1365x768	Work station (SGI)
	60 Hz	64.6 kHz		1	<b>†</b>	Work station (EWS4800)
	71.2 Hz	75.1 kHz		<u> </u>	<u> </u>	Work station (EWS4800)
	72 Hz	78.1 kHz		1	<u>†</u>	Work station (HP)
	75 Hz	80.0 kHz		1	<u>†</u>	
	76.1 Hz	81.1 kHz		<u> </u>	<u>†</u>	Work station (SUN)
	85 Hz	91.1 kHz		<b>†</b>	<b>†</b>	
	100.1 Hz	108.5 kHz		1	<b>†</b>	I/O DATA
1400x1050	60 Hz	65.3 kHz		∆ 1024x768	∆ 1365x768	
	75 Hz	82.3 kHz		<b>†</b>	<b>†</b>	
	85 Hz	93.9 kHz		<b>†</b>	<b>†</b>	
1680x1050	60 Hz	65.3 kHz			∆ 1365x768	
1600x1200	60 Hz	75.0 kHz		∆ 1024x768	∆ 1365x768	
	65 Hz	81.3 kHz		1	1	
	70 Hz	87.5 kHz		1	<u>†</u>	
Ţ	75 Hz	93.8 kHz		1	<u>†</u>	
	85 Hz	106.3 kHz		1	<u>†</u>	
1920x1200	59.9 Hz	74.6 kHz			∆ 1365x768	CVT
1920x1200RB	60 Hz	74.0 kHz			∆ 1365x768	CVT

① : Optimal picture. Adjustment of picture position, refresh rate, phase etc., may be necessary.

 $\bigcirc$  : Picture will be enlarged but some fine detail will be hard to see.

 $\triangle$  : Simple reproduction. Fine detail will not be reproduced.

## Appendix 1-2/2 (INPUT2)

: Not available.

D

Ε

Resolution	Refresh rate		Screen size (Dot x line)			Remarks
(Dot x Line)	Vertical	Horizontal	DOT BY DOT	4:3	FULL	Hemarks
640x480	59.9 Hz	31.5 kHz	O 640x480	O 1024x768	O 1365x768	
	72.8 Hz	37.9 kHz	1	1	1	
Ī	75 Hz	37.5 kHz	<b>†</b>	†	†	
Î	85 Hz	43.3 kHz	1	1	1	
I	100.4 Hz	51.1 kHz	<b>†</b>	<b>†</b>	<b>†</b>	
	120.4 Hz	61.3 kHz	<b>†</b>	<b>†</b>	<b>†</b>	
720x400	70.1 Hz	31.5 kHz	○ 720x400		O 1365x768	NEC PC-9800
	85.1 Hz	37.9 kHz	<b>†</b>		<b>†</b>	
848x480	60 Hz	31.0 kHz	O 848x480		O 1365x768	
852x480	60 Hz	31.7 kHz	O 852x480		O 1365x768	
800x600	56.3 Hz	35.2 kHz	0 800x600	O 1024x768	O 1365x768	
i	60.3 Hz	37.9 kHz	1	1	1	
İ	72.2 Hz	48.1 kHz	<b>†</b>	1	<b>†</b>	
İ	75 Hz	46.9 kHz	<b>†</b>	1	<b>†</b>	
i	85.1 Hz	53.7 kHz	1	1	1	
İ	99.8 Hz	63.0 kHz	<u> </u>	1	<u> </u>	
ĺ	120 Hz	75.7 kHz	1	1	<b>†</b>	

199

PDP-507CMX

7

: Not available.

3

Resolution	Refresh rate		Scre	en size (Dot x	line)	Remarks
(Dot x Line)	Vertical	Horizontal	DOT BY DOT	4:3	FULL	Hemarks
1024x768	60 Hz	48.4 kHz	0		0	
			1024x768		1365x768	
	60 Hz	49.7 kHz	1		1	Work station (SGI)
	70.1 Hz	56.5 kHz	1		1	
	75 Hz	60.0 kHz	<b>†</b>		1	
	85 Hz	68.7 kHz	<b> </b>		<b>†</b>	
	100.6 Hz	80.5 kHz	1		1	
1280x768	56.2 Hz	45.1 kHz	O 1280x768		∆ 1365x768	
	59.8 Hz	48 kHz	1		1	
Ī	69.8 Hz	56 kHz	1		1	
1280x800	59.8 Hz	49.7 kHz			∆ 1365x768	
1280x854	60 Hz	53.1 kHz			∆ 1365x768	
1360x768	60 Hz	47.7 kHz	0 1360x768		∆ 1365x768	I/O DATA
1376x768	59.9 Hz	48.3 kHz			∆ 1365x768	I/O DATA
1152x864	60 Hz	53.7 kHz		 1024x768	∆ 1365x768	
Ī	72 Hz	64.9 kHz		1	1	
Ţ.	75 Hz	67.5 kHz		1	1	
1152x900	66 Hz	61.8 kHz		∆ 1024x768	∆ 1365x768	Work station (SUN)
Ī	76 Hz	71.7 kHz		1	1	Work station (SUN)
1440x900	59.9 Hz	55.9 kHz			∆ 1365x768	Apple Macintosh17"
1280x960	60 Hz	60.0 kHz		 1024x768	∆ 1365x768	
Ī	85 Hz	85.9 kHz		<b>†</b>	1	
1280x1024	60 Hz	64.0 kHz		 960x768	∆ 1365x768	Work station (SGI)
Ī	60 Hz	64.6 kHz		1	1	Work station (EWS4800)
Ī	71.2 Hz	75.1 kHz		<u>†</u>	1	Work station (EWS4800)
Ī	72 Hz	78.1 kHz		1	1	Work station (HP)
Ī	76.1 Hz	81.1 kHz		1	1	Work station (SUN)
Ī	75 Hz	80.0 kHz		1	1	, ,
	85 Hz	91.1 kHz		<u>†</u>		
1400x1050	60 Hz	65.3 kHz		 1024x768	∆ 1365x768	
1680x1050	60 Hz	65.3 kHz			∆ 1365x768	
1920x1080	50 Hz	56.2 kHz			∆ 1365x768	
ţ	60 Hz	57.5 kHz			1	
1600x1200	60 Hz	75.0 kHz		△ 1024x768	1365x768	
1920x1200RB	60 Hz	74.0 kHz			∆ 1365x768	CVT

#### Note

In rare cases, a normal picture may not be obtained when switching between compatible signal formats on the output device (PC, etc.).

Should this happen, turn off the power and then turn it back on again.

- $\ \bigcirc$  : Optimal picture. Adjustment of picture position, refresh rate, phase etc., may be necessary.
- : Picture will be enlarged but some fine detail will be hard to see.
- $\triangle$  : Simple reproduction. Fine detail will not be reproduced.

F

Ε

В

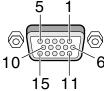
200

PDP-507CMX

# Appendix 2: INPUT1/2 pin assignments

### Appendix 2-1/2:

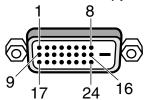
INPUT1 (Mini D-sub 15 pin female connector) pin allocation.



Pin No.	Input	Output
1	R	<b>←</b>
2	G	←
3	В	<b>←</b>
4	NC (No connection)	←
5	GND	←
6	GND	←
7	GND	←
8	GND	←
9	DDC + 5V	NC (No connection)
10	GND	←
11	NC (No connection)	←
12	DDC SDA	NC (No connection)
13	HD or H/V SYNC	←
14	VD	←
15	DDC SCL	NC (No connection)

### Appendix 2-2/2:

INPUT2 (DVI female connector) pin allocation.



Pin No.	Signal Assignment
1	T.M.D.S. Data2-
2	T.M.D.S. Data2+
3	T.M.D.S. Data2/4 Shield
4	NC (No connection)
5	NC (No connection)
6	DDC Clock
7	DDC Data
8	NC (No connection)
9	T.M.D.S. Data1-
10	T.M.D.S. Data1+
11	T.M.D.S. Data1/3 Shield
12	NC (No connection)
13	NC (No connection)
14	+5V Power
15	GND
16	Hot Plug Detect
17	T.M.D.S. Data0-
18	T.M.D.S. Data0+
19	T.M.D.S. Data0/5 Shield
20	NC (No connection)
21	NC (No connection)
22	T.M.D.S. Clock Shield
23	T.M.D.S. Clock+
24	T.M.D.S. Clock-

201

Ε

В

PDP-507CMX

\_

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

#### • List of IC

PEE003B-K, SN755870KPZT, TC7SH08FUS1, TC74VHC00FTS1, AXF1163, LM3478MMX, MD3222N, THC63LVD104AF-K, MP2367DN-LF, NCP5211BDG

### ■ PEE003B-K (50ADDRESS L ASSY:IC1601, 50ADDRESS S ASSY : IC1801)

• LVDS Receiver

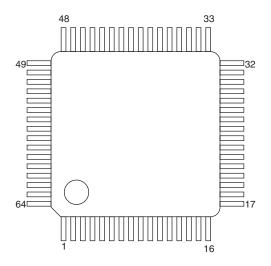
#### • Pin Function

В

No.	I/O	Name
1	LRGND	
2	bb_silcdhsip_7c19a	RAMP1
3	bb_silcdhsip_7c19a	RAPP1
4	bb_silcdhsip_7c19a	RBMP1
5	bb_silcdhsip_7c19a	RBPP1
6	LRVDD	
7	bb_silcdhsip_7c19a	RCMP1
8	bb_silcdhsip_7c19a	RCPP1
9	bb_silcdhsip_7c19a	RCLKMP1
10	bb_silcdhsip_7c19a	RCLKPP1
11	bb_silcdhsip_7c19a	RDMP1
12	bb_silcdhsip_7c19a	RDPP1
13	LRGND	
14	LPGND	
15	LPVDD	
16	SIBTD	TEST0
17	SIBTD	TEST1
18	SIBTD	PHSSEL1
19	SIBTD	PHSSEL0
20	SIBTD	DIV0
21	SIBTD	DIV1
22	GND	
23	VDD	
24	VDD	
25	SOT4L	R_E
26	SOT4L	G_E
27	SOT4L	B_E
28	GND	
29	SOT4L	ADRSV3
30	SOT4L	R_D
31	SOT4L	G_D
32	SOT4L	B_D
33	VDD	
34	SOT8FL	LE
35	GND	
36	SOT12FL	CLKOUT
37	VDD	
38	SOT4L	ADR_B
39	SOT4L	ADR_D
40	SOT4L	ADR_U

No.	I/O	Name
41	SOT4L ADR_G	
42	SOT4L	LBLK
43	SOT4L	HBLK
44	GND	
45	SOT4L	HZ
46	SOT4L	R_C
47	SOT4L	G_C
48	SOT4L	B_C
49	VDD	
50	SOT4L	ADRSV2
51	SOT4L	R_B
52	GND	
53	SOT4L	G_B
54	SOT4L	B_B
55	GND	
56	VDD	
57	SOT4L	ADRSV1
58	VDD	
59	SOT4L	R_A
60	SOT4L	G_A
61	GND	
62	SOT4L	B_A
63	SOT4L	ADRSV0
64	SISTD	OE

#### • Pin Arrangement (Top view)



202

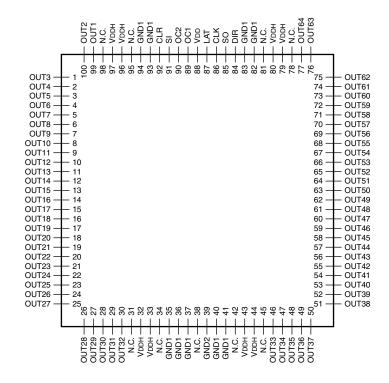
(50 SCAN B ASSY: IC2901 - IC2906)

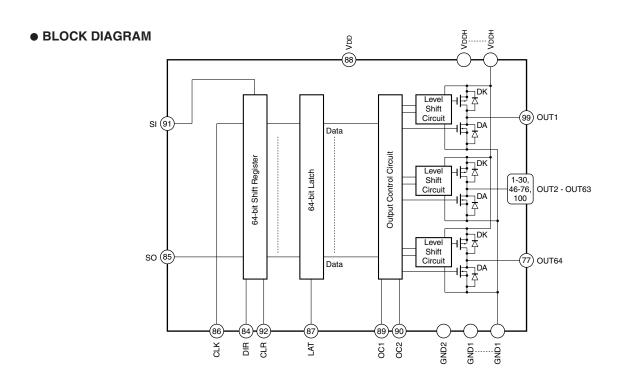
6

• PLASMA DISPLAY PANEL IC

#### PIN LAYOUT (Top View)

5





203

5

8

В

С

D

Ε

F

**■** 2 **■** 3 **■** 4

### PIN FUNNCTION

В

L	No.	Pin Name	I/O	Pin Function				
	1 - 30	OUT3 - OUT32	0	High-voltage push-pull output				
	31	N.C.	_	Not used				
	32 - 33	VDDH	_	Power for High-voltage circuit				
	34	N.C.	_	Not used				
	35 - 37	GND1	_	GND				
	38	N.C.	_	Not used				
	39	GND2	_	GND				
	40 - 41	GND1	_	GND				
	42	N.C.	_	Not used				
	43 - 44	VDDH	_	Power for High-voltage circuit				
	45	N.C.	_	Not used				
	46 - 77	OUT33 - OUT64	0	High-voltage push-pull output				
	78	N.C.	_	Not used				
. [	79 - 80	VDDH	_	Power for High-voltage circuit				
	81	N.C.	_	Not used				
	82 - 83	GND1	_	GND				
	84	DIR	I	Setting the shift direction of shift-register L : reverse side shift (SO→SI), H : forward side shift (SI→	SO)			
; [	85	SO	I/O	Serial data In/Out				
	86	CLK	I	Serial clock Input Down-side edge trigger				
-	87	LAT	ı	LAT data Input L: The data of shiftregister is transferred to ouput latch. H: The ouput data of latch is holded.				
	88	VDD	_	Power for Logic circuit				
				Output control	OC1	OC2	OUT	1
	89	OC1	1	Output is controlled by truth table right side.		L	ALL Hi-Z	1 1
L					냔	Н	DATA	1 1
					┝╫	L	ALL L	1 1
'	90	OC2	1		<del>                                     </del>	Н	ALL H	1 1
L						11	ALLII	]
L	91	SI	I/O	Serial data In/Out				
╽	92	CLR	I	All output reset CLR terminal : L $\rightarrow$ normal operation, CL	.R term	inal : H	l→ All output	t "H"
.	93 - 94	GND1	_	GND				
	95	N.C.	_	Not used				
L	96 - 97	VDDH	-	Power for High-voltage circuit				
L	98	N.C.	-	Not used				
L	99 - 100	OUT1 - OUT2	0	High-voltage push-pull output				

Ε

D

F

204

PDP-507CMX

■ 2 ■ 3

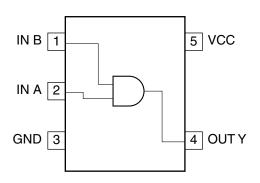
### TC7SH08FUS1 (50 SCAN B ASSY: IC2907)

6

• 2-input AND Gate

5

#### Block Diagram



#### • Truth Table

Α	В	Υ
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

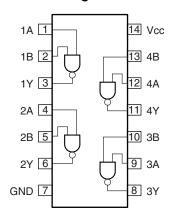
5

### TC74VHC00FTS1 (50 X MAIN DRIVE ASSY: IC1002)

• Quad 2-input AND Gate

7

#### Block Diagram



#### Truth Table

Α	В	Υ
L	L	Н
L	Н	Н
Н	L	Н
Н	Ι	L

В

С

D

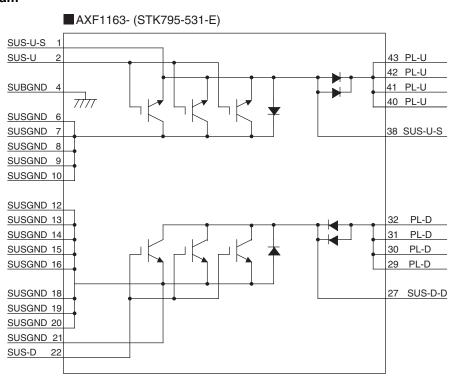
Ε

F

**AXF1163** (50 X MAIN DRIVE ASSY : IC1104) (50 Y MAIN DRIVE ASSY: IC2107)

• DK Module

#### Block Diagram



205

8

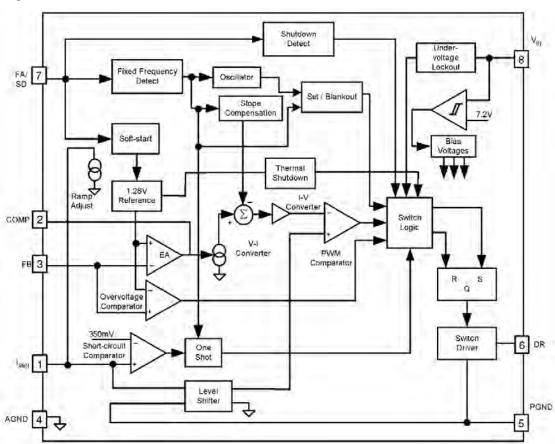
### **■** 2 **■** 3 **■** 4

### ■LM3478MMX (LVDS ASSY : IC301)

• Switching Regulator

### Block Diagram

В



#### ■ Pin Function

No.	Pin Name	Pin Function
1	ISEN	Current sense input pin. Voltage generated across an external sense resistor is fed into this pin.
2	СОМР	Compensation pin. A resistor, capacitor combination connected to this pin provides compensation for the control loop.
3	FB	Feedback pin. The output voltage should be adjusted using a resistor divider to provide 1.26V at this pin.
4	AGND	Analog ground pin.
5	PGND	Power ground pin.
6	DR	Drive pin of the IC. The gate of the external MOSFET should be connected to this pin.
7	FA/SD	Frequency adjust and Shutdown pin. A resistor connected to this pin sets the oscillator frequency. A high level on this pin for $\geq$ 30 $\mu$ s will turn the device off. The device will then draw less than 10 $\mu$ A from the supply.
8	VIN	Power Supply Input pin.

F

Ε

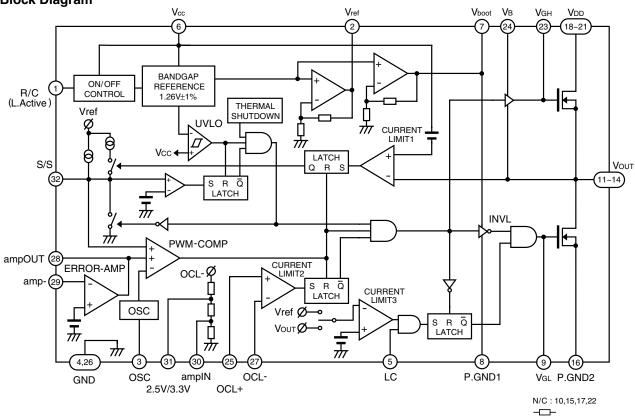
D

206

PDP-507CMX

5

### • Block Diagram



6

7

8

В

С

D

Е

F

#### Pin Function

No.	Pin Name	Pin Function
1	R/C	Remote ON / OFF control
2	Vref	Internal reference voltage output
3	osc	Oscillation frequency select
4,26	GND	Control circuit GND
5	LC	Cut - off detect select
6	Vcc	Control circuit power supply
7	Vboot	Low side MOSFET drive circuit power supply
8	P.GND1	Low side MOSFET drive circuit GND
9	VgL	Low side MOSFET gate.Please do not conect the pin anywhere.
11–14	Vout	Output
16	P.GND2	Low side MOSFET sources
18–21	V <sub>DD</sub>	High side MOSFET power supply
23	VgH	High side MOSFET gate.Please do not conect the pin anywhere.
24	Vв	High side MOSFET drive circuit power supply
25	OCL+	Over - current +ve detect at external resistance detection
27	OCL-	Over - current - ve detect at external resistance detection
28	ampOUT	Internal error amplifier output
29	smp-	Internal error amplifier inverted input
30	ampIN	Internal voltage detect resistor output
31	2.5V/3.3V	2.5V / 3.3V output select
32	S/S	Soft start condenser connection
10,15,17,22	N/C	Non - connection (not connected internally)

207

PDP-507CMX

5

### ■ THC63LVD104AF-K (IC101 : LVDS ASSY)

2

3

• LVDS Receiver

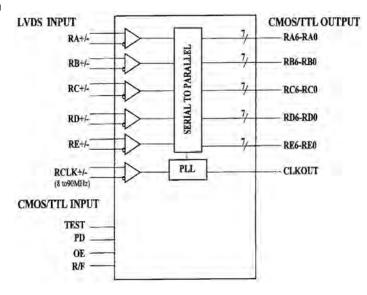
Block Diagram

В

С

D

Ε



#### Pin Function

Pin Name	Pin#	Type	Description	
RA+, RA-	50, 49	LVDS IN		
RB+, RB-	52, 51	LVDS IN		
RC+, RC-	55, 54	LVDS IN	LVDS Data In.	
RD+, RD-	60, 59	LVDS IN		
RE+,RE-	62, 61	LVDS IN		
RCLK+, RCLK-	57, 56	LVDS IN	LVDS Clock In.	
RA6 - RA0	40,41,42,43,45,46,47	OUT		
RB6 - RB0	32,33,34,35,36,38,39	OUT		
RC6 ~ RC0	22,24,25,26,27,28,29	OUT	CMOS/TTL Data Outputs.	
RD6 - RD0	14,15,17,18,19,20,21	OUT		
RE6 ~ RE0	6,7,8,10,11,12,13	OUT		
TEST	2	IN	Test pin, must be "L" for normal operation.	
PD	3	IN	H: Normal operation, L: Power down (all outputs are "L")	
OE	4	IN	H:Output enable (Normal operation). L:Output disable(all outputs are Hi-Z)	
R/F	5	IN	Output Clock Triggering Edge Select. H: Rising edge, L: Falling edge	
vcc	9,23,37,48	Power	Power Supply Pins for TTL outputs and digita circuitry.	
CLKOUT	31	OUT	Clock out.	
GND	1,16,30,44	Ground	Ground Pins for TTL outputs and digital circuitry.	
LVCC	53	Power	Power Supply Pin for LVDS inputs.	
LGND	58	Ground	Ground Pin for LVDS inputs.	
PVCC	64	Power	Power Supply Pin for PLL circuitry.	
PGND	63	Ground	Ground Pin for PLL circuitry.	

208

PDP-507CMX

2

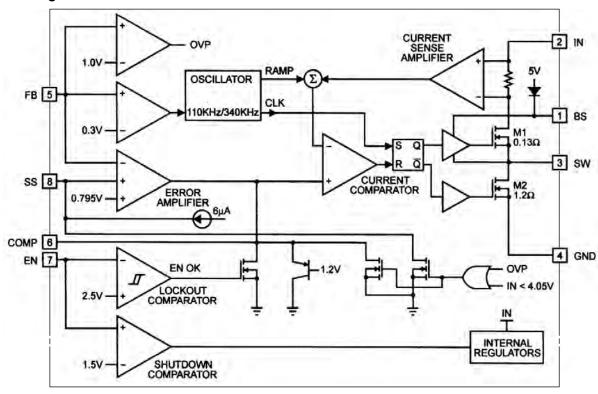
3

### ■ MP2367DN-LF (IC302 : DD ASSY)

• Converter IC

5

#### Block Diagram



6

7

8

В

С

D

Е

F

#### Pin Function

Pin#	Name	Description	
1	BS	High-Side Gate Drive Boost Input. BS supplies the drive for the high-side N-Channel MOSFET switch. Connect a 0.01µF or greater capacitor from SW to BS to power the high-side switch.	
2	IN	Power Input. IN supplies the power to the IC, as well as the step-down converter switches. Drive IN with a 4.75V to 28V power source. Bypass IN to GND with a suitably large capacitor to eliminate noise on the input to the IC. See Input Capacitor.	
3	SW Power Switching Output. SW is the switching node that supplies power to the output. Co the output LC filter from SW to the output load. Note that a capacitor is required from SW BS to power the high-side switch.		
4	GND	Ground (Connect Exposed Pad to Pin 4)	
5	FB	Feedback Input. FB senses the output voltage to regulate that voltage. Drive FB with a resistive voltage divider from the output voltage. The feedback reference voltage is 0.795 See Setting the Output Voltage.	
6	СОМР	Compensation Node. COMP is used to compensate the regulation control loop. Connect a series RC network from COMP to GND to compensate the regulation control loop. In some cases, an additional capacitor from COMP to GND is required. See Compensation Components.	
7	EN	Enable Input. EN is a digital input that turns the regulator on or off. Drive EN high to turn of the regulator, drive it low to turn it off. Pull up with $100k\Omega$ resistor for automatic startup.	
8	ss	Soft-Start Control Input. SS controls the soft-start period. Connect a capacitor from SS to GND to set the soft-start period. A 0.1µF capacitor sets the soft-start period to 15ms. To disable the soft-start feature, leave SS unconnected.	

209

2 = 3 = 4

### ■ NCP5211BDG (IC303 : DD ASSY)

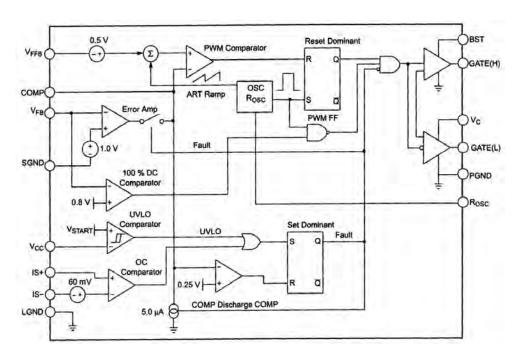
Regulator IC

### Block Diagram

В

D

Ε



#### Pin Function

PIN NO.	PIN SYMBOL	FUNCTION	
1	GATE(H)	High Side Switch FET driver pin. Capable of delivering peak currents of 1.0 A.	
2	BST	Power supply input for the high side driver.	
3	LGND	Reference ground. All control circuits are referenced to this pin. IC substrate connection.	
4	V <sub>FFB</sub>	Input for the PWM comparator.	
5	V <sub>FB</sub>	Error amplifier Input.	
6	COMP	Error Amp output. PWM Comparator reference input. A capacitor to LGND provides error amp compensation.	
7	SGND	Internal reference is connected to this ground. Connect directly at the load for ground remsensing.	
8	Rosc	A resistor from this pin to SGND sets switching frequency.	
9	Vcc	Input Power Supply Pin. It supplies power to control circuitry. A 0.1 $\mu\text{F}$ Decoupling cap is recommended.	
10	IS-	Negative input for overcurrent comparator.	
11	IS+	Positive input for overcurrent comparator.	
12	Vc	Power supply input for the low side driver.	
13	GATE(L)	Low Side Synchronous FET driver pin. Capable of delivering peak currents of 1.0 A.	
14	PGND	High Current ground for the GATE(H) and GATE(L) pins.	

210

PDP-507CMX

2 ■ 3 ■ 4